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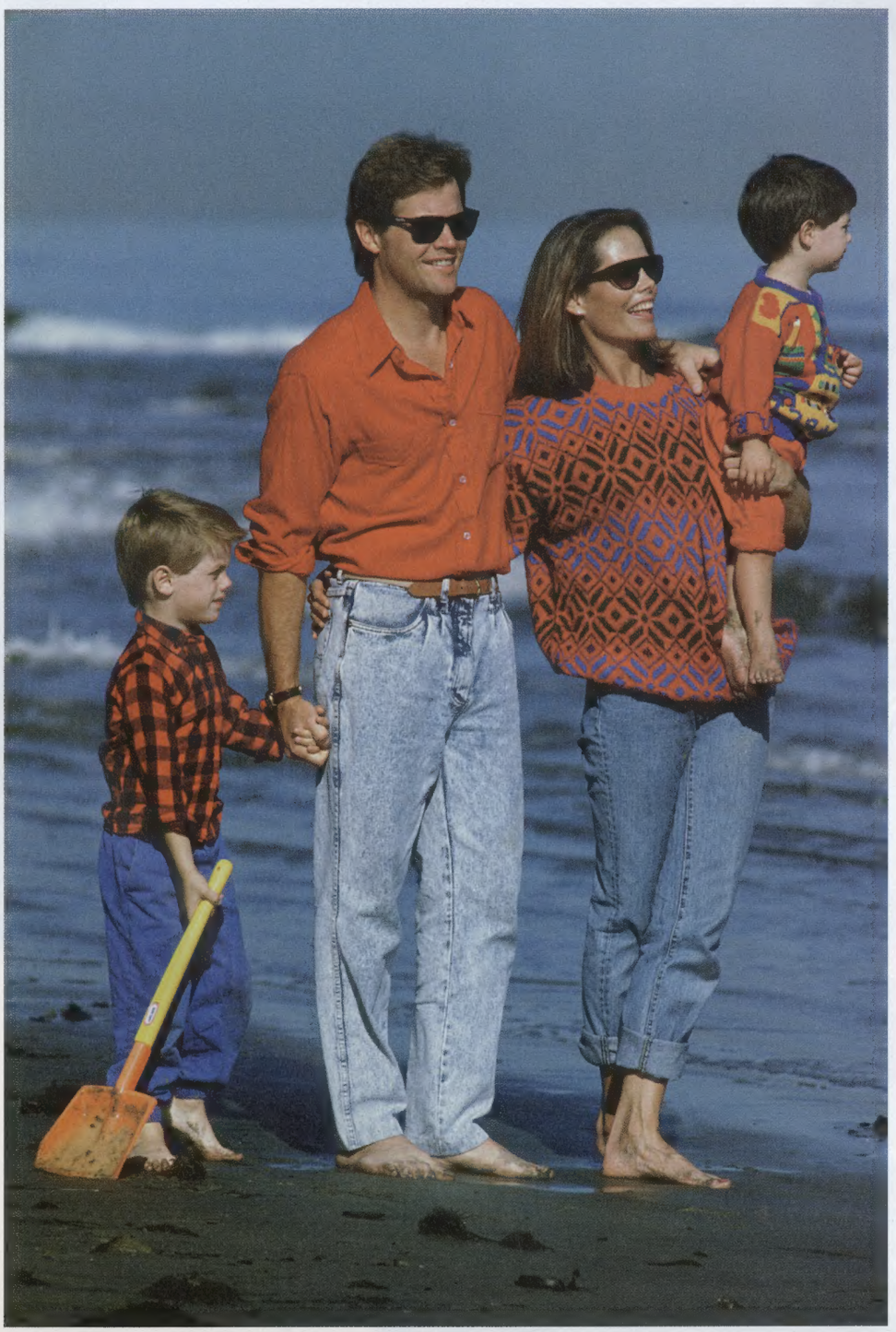

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VOLUME 53 NUMBER 1

FEATURES

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U of A researchers are seeking a better understanding of the cow's remarkable ability to produce milk. Their goal is to "design" milk to suit consumer preferences and to make the most of its health-promoting components.

12 **Beetlemania**

University of Alberta professor emeritus George Ball has spent his entire career beating back vegetation, scraping away bark, and looking under rocks. What's he looking for? Bugs, or more specifically, ground beetles.

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$21 million *for the* **21st Century**

Campaign insert between pages 16-17

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University of Alberta

UNIVERSITY 1908 1908 of ALBERTA

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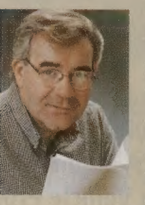
BASE CAMP



On my desk sits a black-and-white photo salvaged from some long-ago display. The photograph, probably taken more than 40 years ago, shows the late William Rowan facing a crowded lecture room. Rowan was a zoology professor at the U of A – the first person to offer conclusive proof of the influence of photoperiod on bird migtration – and on the laboratory bench at his side is propped the skeleton of a monkey.

For me the photo serves as a touchstone with the Univertsity's past. As I look at it now, it reminds me that gradually another generation of University of Alberta faculty members is joining Rowan as part of the University's past.

That's not exactly gone unnoticed, but as the new millenium approaches the University is understandably focussed on the future. And that's good news: in recent years the campus community has emerged from the doldrums caused by government cuts and uncertainty and the mood is much more buoyant now. In large measure that's been helped along by the influx of bright, talented new faculty members who have been arriving on campus in a steady stream over the past couple of years.

It's natural to focus on them: the University's future rests squarely on their shoulders. But we shouldn't forget the many bright, dedicated people who took over from Rowan's generation and are now themselves stepping to the sidelines.

George Ball, who is the subject of a feature story by associate editor Charlene Rooke in this issue, is one of these. Now a professor emeritus of entomology, Ball began his career at the U of A in 1954 – two years before Rowan retired and just in advance of the large-scale hiring that took place to accommodate the baby-boomers' arrival on campus in the '60s.

In many ways Ball, who has served as the inspiration for countless students and made fundamental contributions to insect systematics, is representative of the best of the generation that succeeded Rowan. Their shoes will take some filling.

Rick Pilger
Editor

First came the HEV (Hybrid Electric Vehicle), then came the NGV (Natural Gas Vehicle), then the LPGV (Liquid Petroleum Gas Vehicle). Now, U of A Engineering students are working on the SVP (Solar Vehicle Project).

And then there was LIGHT!

Illustration by Xiaoyu Zhou

SUNNY SIDE UP

An artist's conception of the proposed U of A vehicle: a lightweight frame, aerodynamic shell, and highly efficient electrical and mechanical systems will help the solar vehicle to shine.

FOLLOWING IN THE SLIPSTREAM of previous award-winning student vehicles at the U of A, a group of students is embarking on perhaps the most ambitious student vehicle challenge on campus to date: building a solar-powered car from the ground up. (Previous student vehicle projects have involved adapting existing vehicles to operate on alternative power sources.)

A solar car is an electric vehicle that generates its power directly from the sun, usually through an array of photo-voltaic cells. The generated energy is then stored in the car's batteries so it can be used at any time. Harnessing solar energy to power vehicles would help reduce many of the harmful pollutants that are byproducts of traditional combustion engines.

The U of A students hope to enter their solar-powered car in a circuit of solar vehicle races. The first race they plan to enter is the Sunrayce in June 1999 (*www.sunrayce.com*). The UASVP team will complete a 10-day trip down the east coast of the United States from Pennsylvania to Florida while racing other teams, keeping their vehicle in top condition – and hoping for a tailwind. The team's ultimate goal is to compete in the World Solar Challenge. That race is slated to take place in October 1999 in Australia, running across the continent from Darwin to Adelaide.

The UASVP team – which is made up of faculty advisors and students from arts, engineering, business, science, and education – welcomes the contributions of individuals and groups with resources or expertise in the areas of structure and dynamics, power systems, engineering design and construction, art and design, project management and organization, publicity, financing, and education. Beyond building the solar vehicle, the group is committed to becoming involved in the community and in local events, particularly in promoting solar energy, alternative forms of transportation, engineering, and science to school children and learners of all ages.

To learn more about the Solar Vehicle Project, call 492-9440, e-mail *solarcar@gpu.srv.ualberta.ca* or visit *www.ualberta.ca/~solarcar* on the Web.

let them eat

macaroni & cheese

clint's macaroni soup

The winning recipe in the Students' Union macaroni cook-off came from the Honorable Clint Dunford, Alberta Minister of Advanced Education.

- 1 lb. ground beef
- 1 medium onion, chopped up
- 1–28 oz. can chopped tomatoes
- 2–28 oz. cans water
- 3-4 cups cooked macaroni
- 1 can tomato soup (optional)
- salt & pepper to taste

Brown ground beef and onions. Drain off fat. Add to a big pot with water, tomatoes and soup (if desired). Season with salt and pepper. Bring to a boil and then let simmer for 10 minutes. Sprinkle cheese on top if desired.

to raise awareness of student debt

Millions of boxes of macaroni and cheese mix move out of grocery stores every year, making it one of the most popular packaged foods in Canada. Who's eating all that economical, bright-orange food?

Penniless students are, says the U of A Students' Union, which staged a macaroni and cheese cook-off on 2 February to call attention to National Day of Student Debt.

Judged by an illustrious panel that included four undergraduate students, U of A vice-president (academic) Doug Owram, and Faculty of Business dean Mike Percy, the cook-off included contestants such as Alumni Association president **Peter Graham**, '66 BCom. The thrifty winning recipe came from, ironically, the Alberta cabinet minister who is responsible for the funding of post-secondary education.

The cook-off was one event in a week-long fair, held from February 2-6 for Student Financial Awareness week, that included displays in SUB about financial aid and financial management for students. Although the tone of the macaroni cook-off was lighthearted, Students' Union vice-president (external) Heather Taylor, who hosted the event, says student debt is a serious issue. "The average Canadian [doesn't realize] how it affects them. We have a whole generation here who are going to graduate with these huge looming debts. We are not going to buy houses. We are not going to buy cars. Our economy is going to suffer because of it."

Bringing the issue closer to home, Taylor points out that the Campus Food Bank feeds more than 1,000 families each year, and that the Students' Union Access Fund of more than half a million dollars has been established to provide need-based bursaries to U of A students.

According to statistics from the Human Resources Development Canada Task Force on Youth, average student debt load upon graduation from a four-year undergraduate program is $25,000 in Canada. In Alberta, students with federal and provincial loans had an average debt load of just over $19,000 last year.

Basic tuition for a one-year, full course load at the U of A was $3,056 in 1997/98. This past February, the U of A Board of Governors voted in favor of the maximum allowable 8.92 per cent increase in tuition fees in 1998/99. The Students' Union had lobbied for a more moderate five per cent increase.

Wednesday Night FEVER

Have you got two left feet?
Does it always seem like you're dancing to a different drummer?
Do you think that floorcraft is a new miracle wax?

If you answered yes to any of these questions, the U of A Dance Club may be for you. It welcomes dancers of all ages, shapes, and skill levels to its weekly lessons, held at Dinwoodie Lounge in the Students' Union Building on campus. The club has more than 1,300 members who currently meet at six different times each week to enjoy recreational and competitive dance.

"If Al Pacino can do it, so can you," laughs club president and graduating Faculty of Education student Chantel Nelles, echoing a promotional slogan (referring to the actor's famous tango in the film *Scent of a Woman*) that the club has used to recruit members. "[Dancing] really does provide a good form of recreational activity. It's a good workout for your whole body," says Nelles, who has been dancing since she was two-and-a-half-years old. "And it's a social activity. Something happens when you dance … it's a form of non-verbal communication."

Dance Club members join as individuals and in pairs, and changing partners often is encouraged, Nelles says, to give everyone an equal opportunity to practise. Traditionally, women have been the keenest Dance Club participants. "We always need men," she laughs. Over its 41-year history, the club has had an unusual number of "meet and marries" among its alumni, says Nelles, whose own parents are Dance Club members. Because many students try the club while enroled at the U of A, and want to continue after they graduate, there are special membership provisions for alumni and non-students.

The Dance Club's spring session runs from mid-May to the end of June, and the fall session begins in September. To register, call 492-2116.

Akemi Matsubuchi

U of A Dance Club members cut the rug at Top Hat and Tails, held on 4 April. The event is one of two club formals held every year, at which Dance Club members strut their stuff, perform, and even compete against other couples.

PASSing marks

U of A professor J. P. Das develops a new test for measuring intelligence

Which one of the following letters does not belong in this series? A D G I J M P S

A fish has a head 9 cm long. The tail is equal to the size of the head plus one-half the size of the body, and the body is the size of the head plus the tail. How long is the fish?*

Questions like these are commonly found on IQ or intelligence quotient tests. Traditional IQ tests may claim to measure a person's ability to think, reason and solve problems. But do they really? They may not take into account some important factors in a person's intelligence or learning ability. In addition, IQ tests tend to be culturally biased and closely related to the kind of knowledge normally acquired in school.

Those were the kind of criticisms that U of A educational psychology professor J.P. Das had been hearing from colleagues and educators. In fact, traditional IQ tests have fallen so far out of favor in the last 10 years that they are no longer used in many parts of the United States.

Das and researcher Dr. Jack Naglieri from Ohio State University have developed a new test, one that they say more accurately measures many different aspects of intelligence. Called the PASS method (PASS stands for Planning, Attention, Simultaneous processing, Successive processing), the test they've developed is designed to be taken by children ages 5-17. (Many traditional IQ tests purport to provide accurate results for a broad age range of children and adults.)

The PASS method offers educators a more sophisticated way of detecting learning difficulties and prescribing ways of tackling those problems. For instance, the PASS method is capable of detecting a condition such as attention deficit disorder or dyslexia, which might be overlooked or misread as low intelligence by traditional testing methods.

More than 3,000 children have already taken the PASS test to help the researchers establish benchmark scores for the method. Das and Naglieri hope the PASS method will soon be in wide use throughout North America.

*ANSWERS: I, 72 cm

Happy Anniversary!

60 years after their graduation from the U of A, identical twin sisters **Nettie Pedlar (Garfield)**, '38 BSc(Nu), and **Helen Sabin (Garfield)**, '38 BSc(Nu), were back on campus in late January to help recognize an even more auspicious anniversary: 80 years of nursing education at the University of Alberta.

In 1918 the U of A became the first university in Canada to offer nursing courses when it established a two-month-long public health nursing course. Since then more than 8,000 nurses have graduated, including Pedlar and Sabin, who received their U of A degrees with seven classmates in 1938.

Celebrations marking the nursing anniversary are planned for the entire year. Anniversary dinners for alumni have already been held in Calgary and Victoria. Others are planned for Vancouver, Edmonton and Toronto. The Edmonton dinner will be held on 29 May.

1918 1998
FACULTY OF NURSING
UNIVERSITY OF ALBERTA

LANDMARKS

■ Beginning on 1 July, the new director of the School of Native Studies will be Frank Tough, a former professor and head of the Native Studies program at the U of Saskatchewan.

■ William Connor, associate dean (student programs and planning) in the Faculty of Arts, will become the new Dean of Students on 1 June.

■ Human ecology professor Norah Keating, who has done extensive research in the area of care for seniors, recently became president of the Canadian Association of Gerontology.

■ English department chair Patricia Demers was recently appointed to the Social Sciences and Humanities Research Council of Canada.

■ The U of A Faculty of Law is the site of the Canadian Forum on Civil Justice, an information clearing house on the civil justice system. The forum opened in March with the support of the Canadian Bar Association and a number of other legal organizations.

■ AltaRex, an Alberta-based biopharmaceutical company that focuses on products for the diagnosis and treatment of cancer, recently opened its laboratories and offices on campus. The company is a spin-off from the research of U of A professor emeritus Tony Noujaim.

■ The 1998 J. Gordin Kaplan Awards for Excellence in Research went to English professor and Governor General's award-winning poet Ted Blodgett and dean of medicine Lorne Tyrrell. The Kaplan awards are the U of A's most prestigious research awards.

Apostrophes II: through you I **by E. D. Blodgett**

■ Computing science professor Jonathan Schaeffer, creator of the world champion checkers program Chinook, won a prestigious 1998 Steacie Memorial Fellowship from the National Research Council.

■ The Alberta Conservation Association has donated $3 million to the U of A to establish an academic chair in wildlife management and conservation in the Faculty of Science.

■ In the Department of Civil and Environmental Engineering, Roger Cheng has been appointed the C.W. Carry Chair in Steel Structures, taking over from professor emeritus **Geoffrey Kulak**, '58 BSc(Eng).

■ Maureen Kempston Darkes, the president and general manager of General Motors of Canada Limited, recently received the 1998 Canadian Business Leader Award from the U of A Faculty of Business.

■ Suzanne Kresta, associate chair of the Department of Chemical Engineering, recently received the 1998 Early Accomplishment Award from the Association of Professional Engineers, Geologists, and Geophysicists of Alberta.

■ One of four 1998 NSERC Doctoral Prizes went to chemical engineering professor Janet Elliott, who completed her thesis in the area of predicting how gases interact with metal surfaces.

■ The Africa Society at the U of A recently honored comparative literature professor Stephen Arnold with its first Friend of Africa Award. Arnold was instrumental in establishing African studies at the U of A.

■ Weyerhaeuser Canada and the Weyerhaeuser Company Foundation have donated more than $1 million to support innovative forestry research and forestry programs at the U of A.

■ The J. Armand Bombardier Foundation recently made a half-million dollar grant to establish the Bombardier Professorship in Entrepreneurship at the U of A. The professorship will be part of the University's new bilingual bachelor of commerce degree program, which is a joint initiative of the Faculty of Business and Faculté Saint-Jean.

■ Father Timothy Scott recently became the new president of St. Joseph's College on campus. He is a former campus minister at the U of A who has lectured at St. Joseph's College for the last two years.

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Doug Shearer, '51 BSc(Ag) – Antarctica 1997

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Making the Most of Milk

Reseachers at the University of Alberta are looking at milk in a new way: "designing" it to meet consumer demand and identifying components with health implications.

By Rick Pilger
Illustrations by Cindy Revell

It's milking time at Lakeside Dairy and nobody has to tell the 130-or-so cows that supply the raw material that keeps the dairy prosperous. They mill about the gate to the milking parlor, squeezing together, an impatient white sea churning up patches of black flotsam. When the gate to the parlor opens, the animals at the front hurry into the milking stations – there are 16 of these arranged herringbone fashion, eight stations angling out from either side of a central work area – and the work of milking begins once again. Twice a day, seven days a week there's milking to be done: it is the inescapable routine of dairying, which knows no days off.

As the cows pass through the gate on their way to the parlor, Dave Nonay, '72 BSc(Eng), watches them pass with an attentive eye – pure reflex. He's busy discussing the challenges that face a dairy farmer, but his eyes follow each animal, alert for telltale signs of injury or stress. More than anything else, the health of his herd is the cornerstone of his business, the difference between success and failure in an extremely competitive industry.

Dairying is in Nonay's blood. He got away from it for a bit, studied mechanical engineering at the U of A and worked in that profession for a year or so, but then he found himself back involved with the family farm near Spruce Grove, Alberta. And when farms all around him began turning into acreages, he moved north of Edmonton to the Legal area and established Lakeside Dairy in 1976.

Beyond his involvement with his own dairy herd, Nonay has been an active member of Alberta's dairy community and has served on the Alberta Milk Producers' board. Recently he became chair of that board's research committee, which is entrusted with allocating producers' funding to research projects to keep Alberta's dairy farmers competitive in an era of globalization and changing technology. Over the years the committee Nonay now chairs has developed a close relationship with the scientists involved in dairy research at the University of Alberta. Recently the Alberta Milk Producers helped make possible a $1 million expansion of the University of Alberta Dairy Research and Technology Centre, a place where dairy research is about much more than milking cows.

Located a few minutes south of campus in an agricultural oasis well within Edmonton's urban reach, the Dairy Research and Technology Centre is a component of the Faculty of Agriculture, Forestry and Home Economics' Edmonton Research Station. Its expansion is a result of a five-year research partnership agreement signed last year by the University, the Alberta Milk Producers and Alberta Agriculture, Food and Rural Development.

The emphasis is now on what's in the glass.

The Centre employs 14 people and provides the research facilities for a team of 11 researchers, including graduate students, research associates, and full-time staff. Its expansion, which has provided 90 new stalls, has made it possible to double the herd size to 125 milking cows. It has also resulted in improved feed mixing and preparation facilities, as well as added office space for staff.

As important as it is in its own right, the expansion is equally significant in marking a new era. University of Alberta researchers have now begun looking at dairy research – at milk itself – in a whole new light, says John Kennelly, '80 PhD, the dairy scientist who heads the University's Department of Agricultural, Food and Nutrition Science. While in the past the focus has been simply on getting milk into the consumer's glass, the emphasis is now on what's in the glass. The goal is to "design" milk to meet changing consumer demands.

"Until recently our emphasis has been on breeding bigger animals that produced more milk," explains Kennelly. "Now we're turning our attention to adding more value to the milk we produce and studying its health implications." Basic to that is understanding how milk is made. "Cows have this remarkable ability to produce milk, but we really don't understand the exact biochemistry of it," says Kennelly, who grew up on a dairy farm in Ireland and furthered his education attending night school while working as a dairy herdsman. After graduating with a bachelor's degree in agricultural science from the National University of Ireland, he found his way to the University of Alberta, where he graduated with a PhD in 1980 and accepted a faculty position the same year.

Kennelly began with an interest in animal nutrition – an interest he still maintains – but increasingly he has come to focus on work aimed at understanding the molecular and cell physiology of lactation. "If we can understand how a cow makes milk – what controls casein synthesis, what controls the synthesis of fat in the mammary glands, how the biochemical pathways work – we can find ways to produce milk with lower fat and greater amounts of protein. Or different types of protein."

The modern dairy cow is a truly prodigious producer of milk. During a single day, a superior milker may produce as much as 70 litres of milk, close to the 90 litres of milk an average Canadian drinks in a year. Over the course of the 10 months of a year that the average Alberta milk cow is in production, she will produce more than 8,000 kilograms of milk, 300 kilograms of butterfat, 250 kilograms of protein and 400 kilograms of lactose.

Like sheep, goats, camels, and antelope, the cow is a ruminant. Milk production begins in the rumen – essentially a large holding tank where the cow's food is deposited unchewed and mixed with fluid to form a soft mass that she will later regurgitate and then slowly and methodically chew. The rumen of a large cow can hold up to 140 kilograms – the weight of a slightly-undersized sumo wrestler – and regurgitating and chewing this volume of food is no picnic. A cow chewing its cud has long been regarded as the epitome of contentment, but – while it is true that a cow will not ruminate unless it is relaxed and healthy – all that chewing is hard work. It has been calculated that a cow spends a full eight hours a day chewing her cud, which involves grinding her teeth together about 24,000 times.

The final work of milk production takes place in the udder, where nutrients are drawn from the blood and converted to the familiar white fluid.

The factories of the udder are microscopic spheres called alveoli. Each alveolus is lined with a single layer of cells that tirelessly turns blood into milk. Vitamins and minerals are drawn directly from the blood. Blood sugar (glucose) is converted to milk sugar (lactose). Amino acids are manufactured and strung together to make casein and other milk proteins. Droplets of fat are squeezed into the mix.

As the milk is produced, it collects in the hollow inner core of the alveolus, from where it drains into a tiny duct. In the same manner that a thousand rivulets join together to become a stream, and streams converge to become a river, the tiny ducts that drain the aveolus flow together into ducts of ever-increasing size The sea to which they carry the milk is a half-litre-sized cistern, one of which can be found above each of the cow's four teats. Producing just one litre of milk – about a quarter of the milk that flows through each of the cows four teats at every milking – requires 500 litres of blood streaming through the cow's udder.

The relationship between humans and cattle is an ancient one. There are 30,000-year-old cave drawings that are recognizably bovine, and the practice of milking may go back almost that far. All the common breeds of Canadian cattle – Herefords and Holsteins, Shorthorns and Charolais, Limousins and Longhorns, and dozens of others – are descended from a creature known as an aurochs (scientific name *Bos primogenus*). These often-ferocious beasts roamed freely throughout the Eurasian landmass and North Africa before human activity encroached too severely on their favored habitat of woodlands spotted by meadows. The last-known aurochs died in 1627 in Poland, where woodlands were still relatively plentiful and some measure of protection was offered by the local royalty, who reserved for themselves the right to hunt them.

Just how the wild aurochs came to be integrated into agriculture is uncertain. The first steps along the road leading from the ferocious wild aurochs to the thoroughly domesticated Holsteins on Dave Nonay's farm remain veiled in mystery. Some scholars have suggested that cattle might first have been kept for religious (which really means "sacrificial") purposes – a fate that might have been suggested by the crescent shape of the sweep of their horns, reminiscent of the waning moon. Milking would have come much later, at a time when their use as draft animals was already well developed. Goats and sheep, being of a more manageable size, would have been the first animals commonly kept for their milk. Nevertheless, the milking of cows predates written history. In modern-day Iraq, near the site of the ancient city of Babylon, the remains of a 6,000-year-old building contain a panel more than a metre long that has on one side a milking scene: cows and their calves, and men milking the cows into tall jars.

Milking has come a long way since then. Computers are now as much a part of the equipment of a dairy farm as are milking machines, pails, and gleaming stainless steel holding tanks. Each cow passing into the milking parlor at Nonay's Lakeside Dairy sports a high-tech "necklace." When she steps into the milking station, the tiny transmitter that forms the pendant of her neckwear identifies her, and the details of the ensuing milking session will be automatically added to the records stored on a central computer.

Records – financial records, production records, health records, feeding records and breeding records, records of this and records of that – are almost as ubiquitous in modern dairying as in baseball. And nowhere is the propensity for keeping records taken to greater lengths than at the University's dairy unit responsible for managing the herd at the newly-expanded Dairy Research and Technology Centre: even the most fervent baseball statistician would be impressed.

"Records are a big thing here," says unit manager Garry Van Doesburg, and that proves to be an understatement. "If you turn around, write it down," is the informal motto at the unit, where one of every three persons is a record keeper and five powerful computers are kept busy processing records. Everything is sampled, often not once but twice. "Five years from now, we would be able to recreate this day in its entirety," says John Collier, the unit's chief record keeper, as he turns briefly from the computer where he is entering feeding records.

The meticulous records Collier and his colleagues keep are the backbone of much of the research done at the Dairy Technology and Research Centre, making it possible to explore everything from the subtle effects of changes in the cow's diet to the relationship between certain genes and desirable milk properties.

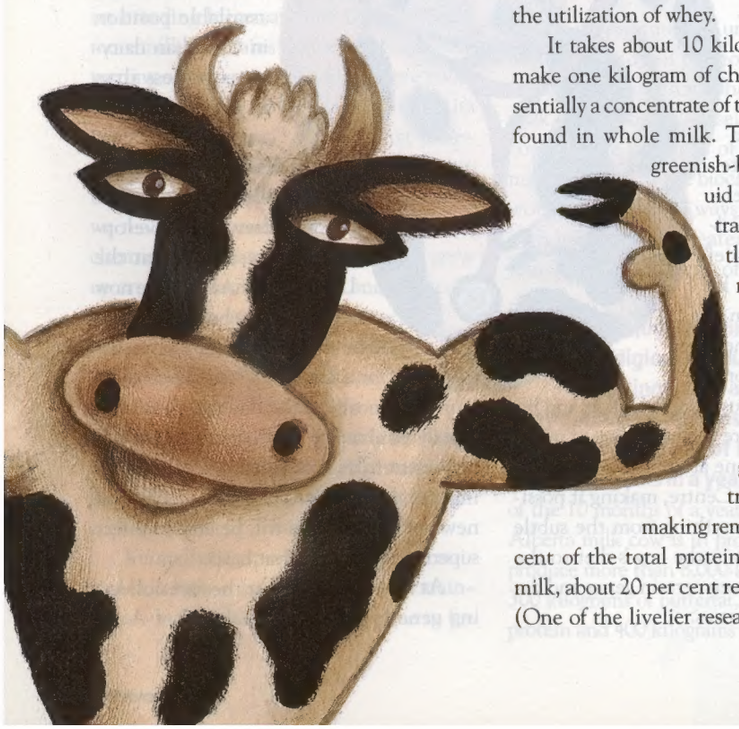
For hundreds of years cattle have been bred for selected traits, at first rather haphazardly and then more deliberately as the pioneering work done in the late 18th century by British cattle breeder Robert Bakewell showed what could be accomplished. The black-and-white Holstein – the cow of Far Side cartoons and milk commercials – is a case in point. The breed traces its ancestry to the intermingling of white cattle from the Dutch province of Friesland with black cattle from the nearby German territory of Schleswig-Holstein. The result was a breed whose superior milking ability has been steadily developed to the point that it is almost synonymous with dairying in North America and much of the world. In Canada the Holstein's history goes back to the early 1880s. When it was first introduced it was praised by some for its remarkable milk-producing ability and denigrated by others for the watery character of its milk. However, with today's trend toward lower-fat dairy products the Holstein has achieved an unassailable position in Canadian dairying – no less than 95 per cent of milk cows in Canada are Holsteins.

By applying the latest scientific developments, researchers at the University of Alberta are now taking selective breeding to another level entirely. "It's now possible," says Kennelly, "to take a single hair from a calf on the day that it is born and determine the type of casein that will be present in its milk when it begins lactating two years later. Over time – and with new knowledge – we will be able to select superior animals on that basis.

At the same time that they are collecting genetic information, the U of A re-

searchers are exploring the relationship between changes in the cow's diet and changes in the composition of the milk it gives. One of their projects involves adding a blend of canola oil and linseed oil to the cows' diets to enhance the nutritional quality of milk fat and, not so incidentally, improve the spreadability of butter. By combining the two approaches – the genetic work and the diet studies, the U of A researchers are hoping to develop "designer milk" tailored to consumer preferences or rich in specific milk components that have health implications.

Paul Jelen now has a personal perspective on the health implications of one of the hottest products on health food shelves these days. Jelen began the new year with a new hip. In mid-November surgeons removed his troublesome natural joint and installed a metal-and-plastic replacement. By the beginning of the new year, he was back in the swing of things, walking with only a slight limp. Jelen credits his speedy recovery at least partly to the beneficial properties of whey protein, which has lately become a health food sensation. It's touted for its muscle-regenerating ability and is said to stimulate the immune system.



"Bodybuilders swear by it," says Jelen, who didn't have to go any further than his own lab for his own supply: he is, after all, the man to whom dairy scientists around the world defer to when the subject is whey, the watery part of milk left over in the cheese-making process. A professor of dairy processing technology who has been associated with the University of Alberta for a quarter-century, Jelen is known to many of his younger colleagues around the world as "Father Whey" or "Old Man Whey." He represents Canada on the executive committee of the International Dairy Federation and is one of the editors of the International Dairy Journal. He's also an award winning teacher and researcher, the recipient of a major research award from the American Dairy Science Association in 1996 and a teaching award from the same group a year later.

Unlike many of his colleagues involved in dairy research, Jelen is city-born – the city of his birth being Prague, where he studied mechanical engineering and got his first job in a dairy processing plant. That experience, combined with his lifelong fondness for milk, eventually led him to the University of Minnesota, where he pursued a doctorate in food science. The subject he chose for his specialization: the utilization of whey.

It takes about 10 kilograms of milk to make one kilogram of cheese, which is essentially a concentrate of the casein proteins found in whole milk. The nine litres of greenish-bluish-tinged liquid that remains has traditionally had little value. It's commonly been fed to animals or disposed of as expeditiously as possible. But not all of the proteins are gone from whey: traditional cheese-making removes about 80 per cent of the total proteins found in whole milk, about 20 per cent remain in the whey. (One of the livelier research areas in dairy technology circles is finding ways of using more of the total proteins to increase cheese yields.)

In recent years evidence has begun mounting that whey proteins do in fact have some major health benefits. "We have enough evidence that at least some of these things are real," says Jelen, but he stresses that much research must still be done. "Whey protein may be the best nutraceutical around, one that could easily be produced in large quantities," he says, "but there are still many questions. What does it do? How do we best produce it? How does it work best – as an extract? As a concentrate? In its regular form?"

One floor above Jelen's office on the main floor of the Agriculture/Forestry Centre on campus, nutritional science professor Catherine Field, '88 PhD, has her eye on another milk component. She's just recently begun a research project that centres on a fatty substance known as conjugated linoleic acid – CLA, for short – which has recently gained a measure of attention in medical circles. "Your body can't make CLA; you have to find it in your diet," says Field. And the two prime sources are beef and dairy products.

Field's interest in CLA, which is produced by the action of bacteria in the rumen, is in its demonstrated anti-cancer properties. In test-tube studies it has been shown to inhibit the development of tumor cells associated with breast cancer, colon cancer, and prostate cancer. Field wants to know why – what is the mechanism? what signals in the cell are being changed? Futhermore, because conjugated linoleic acid is in actuality a group of fatty acids, she is interested in pinpointing which of the members of the CLA group are responsible for the reported anti-cancer proper-

ties. "We also want to see if we can translate the results we see in tissue cultures to animal models," says Field, who emphasizes the large amount of work yet to be done.

Even if animal testing yields positive results, it will only be the beginning. "We will still have to test what it does to normal individuals – and to the growth of children," says Field, who is particularly wary because lipids similar to CLA play an important role in regulating the body's hormone system. "What is good for a rat that we gave a carcinogen to may not be good for a normal individual. CLA is probably okay in the amount that is in the diet now, but if we start to pump that up, we have to be careful."

Lech Ozimek has a term for the practice of extracting milk components for particular uses. He calls it "white mining" and he sees it as a growing part of the future of the dairy industry. "I strongly believe that there's a need for a new generation of valueadded products that can be harvested from milk and milk products," says Ozimek, the U of A faculty member who directs the Alberta Dairy Association Research Unit. Established at the University by the major Alberta dairy processors in 1964, the unit currently has as its three major sponsors Dairyworld Foods, Lucerne Foods, and Parmalat Canada (the company which owns Beatrice Foods).

Work at the unit is pursued in accordance with the needs of the sponsors and trends in dairy processing, explains Ozimek. "We have quite a range of interests, from basic to applied sciences." In discussing the unit's work, Ozimek finds it useful to identify three generations of dairy products. The traditional products – butter, cheese, fluid milk, yogurt, and so on – are the first generation. Next come products specifically developed to meet the needs of the dairy processing industry or other food processors; these second-generation products include milk protein isolates such as sodium caseinates which are widely used in sausage manufacturing. The third generation of products are components "mined" from milk for use as nutraceuticals or for specific applications in pharmaceuticals.

While Ozimek's research unit is involved with projects relating to all three generations, work being done at the third level is causing some of the greatest excitement. Included in this work is a project related to the harvesting of a whey compound known as glycomacropeptide (GMP), which has proven valuable in diet preparations for children with PKU disorder. Children with this rare metabolic disorder have an impaired ability to metabolize the amino acid phenylalanine, which is found in most foods. If not treated early, the disorder can lead to mental retardation – an outcome that a carefully-controlled diet can prevent.

Another interest in Ozimek's lab is the isolation and processing of lactoferrin, an iron-binding protein. Lactoferrin has been shown to have antimicrobial properties and it has also been suggested that it may mediate some effects of inflammation and have a role in regulating various components of the immune system. Human milk is particularly rich in lactoferrin – the concentration is approximately one gram to a litre of milk in a woman who has been nursing for some time. However, human colostrum – the first milk after childbirth – is even richer in this substance, containing seven grams of lactoferrin per litre.

The lactoferrin level in cows' milk is not nearly so high, about one-tenth of that found in human milk, and that has caught the attention of those involved in designing human milk replacement formulas. "Given the much higher level of lactoferrin in human milk, it may be desirable to supplement the level in baby formula to bring it up in the human milk level," says Ozimek.

Discussing the changes in focus taking place in dairy research at the University of Alberta, John Kennelly puts them in the context of a wider trend. "Now, at least in the western world, we have begun to look at the health implications of the things we do. We're no longer just treating diseases; we're thinking about prevention. Within our department, we are trying not to simply look at food production, but focusing on quality, and looking at how it affects human health. And we're looking for the opportunity to produce new foods, or food components, with specific health benefits."

All of which, says the Agricultural, Food and Nutritional Science Department chair, is a source of added value. And that, he says, is vital if the province is going to meet its ambitious goal of increasing the revenues generated by the Alberta agri-food industry from the current $6 billion to $20 billion in 2005.

However, as excited as he and his colleagues are about their work on the leading edge of milk research – "white mining," nutraceuticals, "designer milk," and the like – Kennelly is not about to forget the bread and butter work that keeps Alberta milk the best in Canada, in terms of safety and low bacterial counts, and keeps producers like Dave Nonay competitive in an increasingly competitive business. "If our industry cannot produce milk competitively, all the other stuff is not going to happen," he says.

Beetlemania

By Charlene Rooke

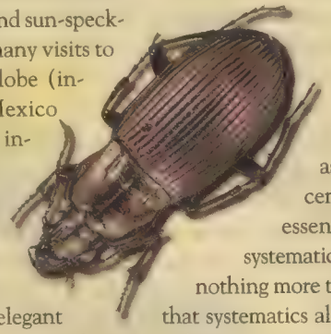
George Ball bounds into the room wearing a plaid flannel shirt, corduroy pants and a suede vest. With his upturned mustache and the magnifying eyepiece that hangs on a leather lanyard around his neck, he posesses the air of an old-time prospector on a quest for gems or treasure.

But when Ball strikes gold, he's not panning in a stream or chipping away rock. Instead, he's tramping down grasses, beating back vegetation, scraping away bark, and turning over stones.

Gold, for Ball, is bugs – specifically, ground beetles. The U of A professor emeritus of entomology has spent much of the last 50 years prospecting in the kind of places where most people would rather not stick their hands.

"You've got to try to think like a beetle, and where you'd be," Ball says, surrounded by drawings, photographs, and specimens of them in his office within the E. H. Strickland Entomological Museum in the Earth Sciences Building. "You know you've done it well if you collect a good sample."

Ball, with the help of colleagues, guides, and others, has collected many of the more than one million specimens in the museum. His inlaid silver belt buckle and sun-speckled skin are souvenirs of his many visits to exotic locales around the globe (including some 20 trips to Mexico over the last 35 years) where insects come in a stunning array of shapes, sizes and colors. He has collected, described, classified and named thousands of insect species, particularly beetles. "They're elegant things," he says reverently, in his robust, slightly raspy voice.



Precisely laid out in their wooden trays, carefully preserved and meticulously labelled in tiny block letters, the ground beetles in the U of A collection are, indeed, beautiful. With their wispy legs and antennae and their shiny lacquered or gleaming iridescent shells, they captivate like creepy toy store treasures. Ranging from half a millimetre to more than 70 millimetres in size – some with fang-like jaws and other lethal-looking appendages – they might not, one suspects, be so captivating in their natural surroundings.

Ball has had a natural affinity for creepies and crawlies since he was a boy growing up in Detroit, indulging his fascination for turtles, frogs, snakes, and bugs. To explain his calling to entomology, he says playfully, "The magic word here is a dollar." A long and amusing yarn later, it turns out that, as a teenager, Ball paid a whole dollar for a pamphlet on completing the Boy Scouts' insect life badge. His investment has long since paid off. "I never looked back," he recalls now.

Ball is renowned for his work in systematics, or classification, of insects. And that involves far more than just naming them according to the time-honored principles established by Carolus Linnaeus' 1758 treatise, the tenth edition of the *Systema Naturae*. It includes studying the diversity of organisms, their ecology, genetics, behavior, and physiology. It is an ancient science that dates as far back as Aristotle and the Greeks, but one that is no less important today, Ball says.

"Systematics itself hasn't changed; what has changed is the general outlook of biology, that has regarded systematics as something of the last century ... people who are essentially ignorant of what systematics is all about think there's nothing more to be done." Ball explains that systematics allows biological scientists to locate organisms in time (in terms of evolution) and space (in terms of habitat) and make generalizations based on meaningful comparisons to other, similar species.

"I think of species as elements in the biological system," says Ball. "Where would chemistry be if seven-eighths of the periodic table weren't filled out? You could do a certain amount – and they did, for years, with earth, air, fire and water – but you can do more when you fill in the gaps."

In entomology, there are a lot of gaps. Although mammals and other creatures greater than a few centimetres in size are generally well-studied, there are around 700,000 known insect species in the world, and perhaps several million that remain to be described. (Ball can point to 386 unidentified species in the U of A collection from a single family of Mexican ground beetles alone.) "Sometimes you get a sample of insects, and you find there's a relatively small number you can put names on." Sagely, the seasoned explorer adds, "The deeper you go into the tropics, the more you find this to be true."

A long and winding road

It was not to the tropics, but to Canada's north, that Ball's career as an entomologist first took him. In 1953, when he was a PhD student at Cornell University, Ball accepted a summer job working on Agriculture Canada's Northern Insect Survey. En route, he stopped in Edmonton and dropped in on entomology professors Edgar Strickland and Brian Hocking at the University of Alberta. The following year, when the U of A advertised a position in entomology,

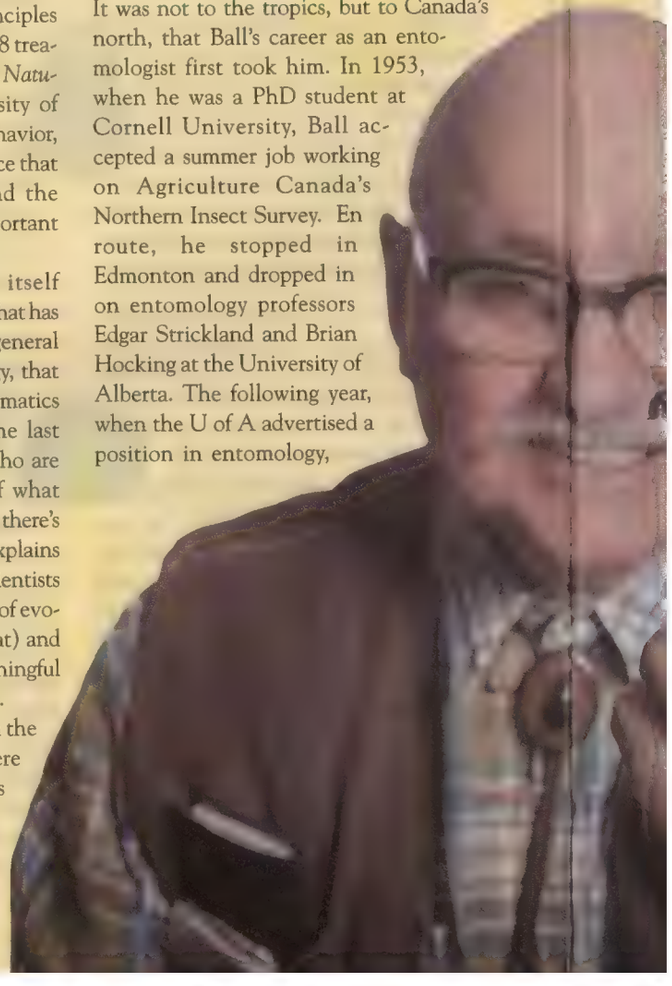


Photo of George Ball by Richard Siemens, U of A Photo Services; Beetle photos courtesy George Ball

George Ball has spent the last half-century learning how to "think like a beetle." Most of the time, it works.

Ball was one of 52 who applied – landing the job, no doubt, in part because the senior faculty remembered the eager, promising young scientist.

Although he has been retired from teaching since 1991, Ball is the honorary curator of the University's entomological collection and is on campus nearly every day doing the research that has made him a central figure among North American entomologists. "When I wake up in the morning, I'm always glad to be able to come up here and look at beetles," he says simply.

Ball's visits to the tropics and the exotic locales – including the West Indies, Peru, Ecuador, and New Guinea – began with his first trip to Mexico in 1962. Drawn by the country and the possibilities for entomological study there, Ball returned three years later, this time accompanied by one of the 39 graduate students who have worked under Ball over the years.

Although the two spent a year covering the country, working from sea level up to the snow line on some of Mexico's highest volcanoes, Ball says, "It's never enough … I've filled in a lot of holes, but I know where there are places I would like to go, where there are important areas with things I would like to find."

Many times, Ball says, he arrived back in Edmonton disappointed with a collection trip, thinking he "didn't have much of anything." Excitement creeps into Ball's voice as he recalls, "But there was always something in there that illuminated a particular area, that was very interesting. Each time you realize how lucky you were to have found what you found."

There were times when thinking like a beetle didn't help him. "I've been in places where I knew there were things I ought to be getting and I couldn't find them," says Ball. "And that is soul-destroying. Utterly, utterly frustrating." Occasionally, though, he had the opposite problem – too many beetles. Ball recalls one Mexican guide with an uncanny knack for collecting ground beetle species, which can differ greatly in size and appearance. "He got so many beetles that he filled all the containers I had," chuckles Ball. The group was at a 3,700-metre elevation that had taken them two days to reach, and had no access to more sample containers. "I couldn't take any more beetles. I didn't have any place to put them," Ball says incredulously. He turns wistful and says, "I never got back there again."

Observing creatures in their natural setting, and classifying them according to their similarities and differences to other creatures, is still the basis of systematics, Ball believes. Modern technology, such as the stereo-electron microscope, has offered scientists sophisticated new means of observing tiny organisms such as insects. Other advances, including molecular identification methods such as DNA analysis, can enhance but not replace thorough and careful observation, Ball believes.

"Think of an organism as a brick," says Ball, with a teacher's talent for analogy. "If you use bricks for building, you don't worry all that much about the sand grains in them, and the sand grains would be like the genes that are in a complete organism. You have to pay attention to the internal structure, but you also have to pay attention to the final product, and the development of the structures that lead to the final product."

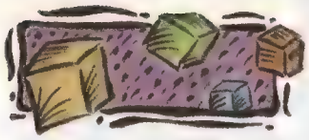
Should anyone think that collecting and identifying bugs could never amount to a hill of ants, Ball is quick to point out that insects can be important to studying major scientific issues – global warming, for instance. "It will be first noticed in the effects of rain change on these tiny creatures," says Ball. "If you know what they are, you can use them to monitor changes on a global level."

He should have known better

Excavating creepy crawlies is an occupation that is not without its perils, as George Ball can attest. Once, a scorpion stung him on the finger. Ball still winces at the painful recollection of his uncharacteristic carelessness, as he had removed his protective gloves for just a moment to try to stop an armadillo that was dashing for its den … but that's another story. Ball says the biggest scare he's ever had was collecting a centipede specimen for a colleague who he thought would be interested in the foot-long creature with a bright blue body, and orange legs, head and tail.

"Wouldn't you know, I grabbed it by the wrong end and the darn thing wriggled up my arm and bit me," says Ball, pantomiming the squirming with one hand. He immediately knew he was in trouble, and spent the next few hours in agony as his colleague drove him toward the nearest hospital, eight long hours away. His whole body broke out in red hives. He became feverish and itchy.

"I could feel them spreading, I could feel the poison spreading down my arms and my legs, and I wondered, what is going to happen when the tips of my toes and tips of my fingers are reached by this ailment?" After four hours, when the poison had run through his entire body, he found out. The itching stopped. The hives abated. When their vehicle was forced to stop for road construction, Ball felt well enough to get out and walk around. "I'm fine!" he announced, and promptly ushered his crew back in the camper, turned it around, and doubled back to – what else? – collect more bugs.



Betting on a Winner

The Faculty of Extension hits the jackpot with a well-attended conference on video lottery terminals. The formation of a centre for gambling studies may be next.

Love them or hate them – and there are plenty of people with strong views on both sides – video gaming machines are changing the landscape of gambling.

While games of chance and the problems associated with them have been with us since the progenitors of our species first rattled bones around a fire, video gaming is something else again, said many of the presenters at an immensely successful conference held at the University of Alberta recently.

More than 200 registrants, who came from four U.S. states and every Canadian province except P.E.I., discussed the special nature of video gaming at the three-day conference *VLTs and Electronic Gambling: Issues and Impacts* held on campus in late February.

Detractors call video lottery terminals and their electronic kin the "crack cocaine of gambling." There are a number of things that make them so dangerous, registrants at the three-day conference were told. One of these is the speed of play: VLTs operate much faster than most other forms of gambling – including mechanical slot machines – allowing for more plays per session and instant gratification. In fact, pointed out Bo Bernhard of the University of Nevada, Las Vegas (one of four University of Nevada researchers who took part in the conference) problem gamblers with serious addiction to video gaming machines are at times so captured by the rhythm of play that they are annoyed by jackpots, which delay the progress of the game.

Besides the dissociation fostered by the speed of play, players are psychologically separated from the value of the amount wagered by the fact that VLT gaming is based on "credits" rather than coins. Further compounding the danger, said the critics, is the fact that VLTs tend to be found in many non-traditional gambling venues, increasing the availability and the likelihood of play. And VLTs don't require much in the way of special knowledge to operate: virtually anyone can play them.

The politics of VLTs

The speakers and participants who gathered for the conference, held in the Timms Centre on campus, represented a spectrum of views. Many who took part were elected officials like Tom McGee, the mayor of Drayton Valley, Alberta, who has to deal with the contentious issues associated with gambling on a daily basis. "It's in your face every day," said McGee. He told the conference that his local council will be faced with a motion on whether the town's 45 video lottery terminals will stay or go, and he worried that the same thing that happened in the central Alberta town of Lacombe will happen in his community. In Lacombe the community was polarized and council split as community activists lined up on opposite sides of the VLT issue.

"Our council will be criticized and the issue will affect our long-term relations with the business community," worried McGee, who believes that provincial politicians have passed the buck on the bothersome issue.

The large turnout of local government office-holders like McGee was not mere chance. The conference was an initiative of the Government Studies unit of the University's Faculty of Extension. The seeds that would grow into the conference were sown last year at the unit's annual Elected Officials Symposium, which featured a pre-conference session entitled "Gambling and Your Community." The session was led by University of Alberta professor emeritus Gary Smith, a gaming research specialist who was in the process of preparing a report on gambling for the Canada West Foundation.

The Elected Officials session confirmed that gambling – and in particular the issue of VLTs – was a key public policy issue, and there was widespread support for an expanded forum exploring the topic. From there, the idea of a national conference emerged.

"Our goal was to provide every perspective on the issue, and I think we did a pretty good job," says Marilyn Wangler, a Government Studies staff member who served as the conference co-ordinator. Presenters at the conference came from diverse backgrounds – from academia, the clergy, law enforcement, and local government, to the gambling industry itself. Insight was even provided at the technical level: by a representative of a company that programs and manufactures video gambling machines and by a former blackjack dealer who now trains people to work in the casino industry. Wangler's one regret is that Alberta's hospitality industry declined to provide a speaker.

Toward a centre for gambling studies

Organizing a high-profile conference on such a contentious public policy issue was a new challenge for the Government

Studies unit, which has been putting on seminars and symposia for municipal administrators and elected officials since its first Municipal Refresher Course was held 60 years ago. The success of their new venture means a lot to Wangler and her colleagues, who are attempting to build momentum toward the creation of a centre for gambling studies within the Faculty of Extension – no such centre currently exists in Canada.

The Canadian Centre for Gambling Studies is envisioned as an independent public service unit that would provide forums for informed discussion about the political, economic, and social effects of gambling. It would also be a research centre, providing balanced research on all aspects of gambling behavior and effects, and engaging scholars in timely research on the regulatory, legislative, and educational issues relating to gambling.

The proposal for the centre, put forward jointly by Smith and Dr. Edward LeSage, the director of the Government Studies division, has been greeted with a great deal of interest and has gained broad support. Recently its creation was given approval by the University, subject to the project securing external funding.

Given the importance of the VLT conference as a step toward the gambling studies centre, Wangler admits to being "filled with trepidation" when she began planning for the event. She needn't have worried. Such is the level of public debate related to gambling issues – and VLTs in particular – that the conference not only attracted healthy interest from registrants but from the media. "It has generated more publicity than any event we've ever done in the Faculty of Extension," says Wangler.

Gambling on the rise

That interest is understandable. Smith's report for the Canada West Foundation, which was released in November, traces the exponential rise in Alberta's legal gambling revenues from the early 1970s to the present. Gross gambling revenues now are 24 times higher than they were at the beginning of the '70s, and the gambling landscape has changed considerably. From a high of 68 per cent of the province's total gambling take, revenues from horse racing have shrivelled to a mere four per cent at present, and VLTs have quickly become the big revenue producers. Since their introduction five years ago, VLTs have rapidly made their presence felt, and now account for 60 per cent of Alberta's gross gambling revenues.

And not only is the percentage figure high, so are the dollar values. In Alberta, VLTs now contribute more than $1.5 billion to the provincial coffers each year. That's more than health-care premiums, or fuel, liquor, and tobacco taxes, and it rivals corporate income tax as a revenue source.

At the same time, tales of the personal devastation wrought by VLTs abound – stories of homes lost, families destroyed, and desperate suicides. In 1996 the Alberta Alcohol and Drug Abuse Commission treated 2,300 individuals for gambling problems – an increase of 1,000 from 1994-95. Last year, nearly two-thirds of the 3,000 calls that AADAC's gambling help line received were related to VLT addiction.

Weeks after the VLT conference had ended, Wangler was still fielding calls about the event and issues that had been raised. And so were many of the presenters at the conference, who have been "delightfully surprised" at the impact that the conference has had, says Wangler. "The interest just keeps rolling," she says. "We're seeing that there really are a lot of complex issues involved – even more than we thought. I think that there's a tendency to believe that some of these public policy issues are more simple than they actually are."

Given the complexity of the issues and the interest in formulating appropriate public policy, there's no doubt in Wangler's mind that the conference has done its job in confirming the need for a centre for gambling studies "What I'm hearing from people is that we've got to keep doing this."

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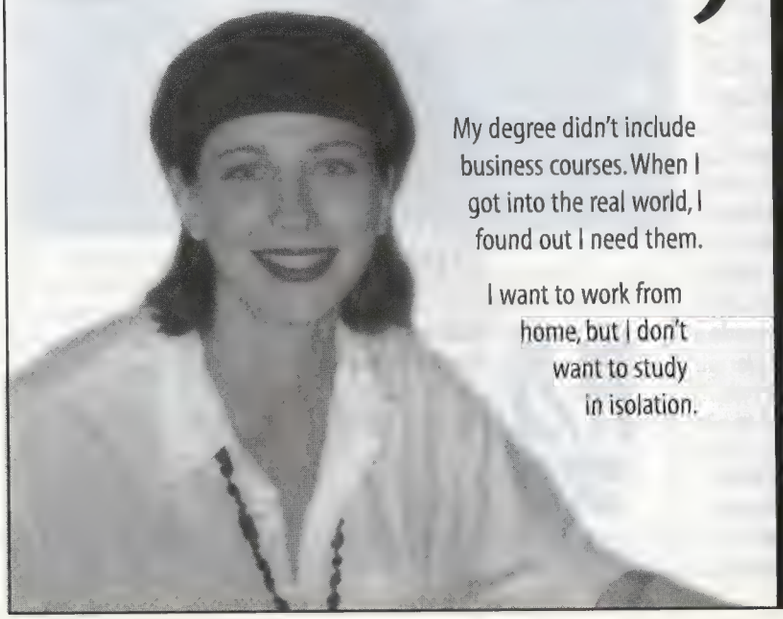

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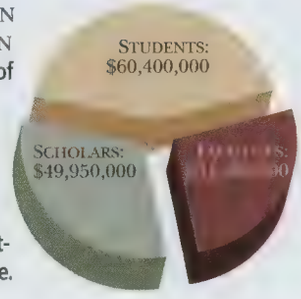

With this issue of *New Trail* we officially launch the alumni portion of the University of Alberta Campaign. The goal of the Alumni Campaign is $21 million. Its focus is creating scholarships and bursaries to support U of A students of the next century — the leaders of tomorrow.

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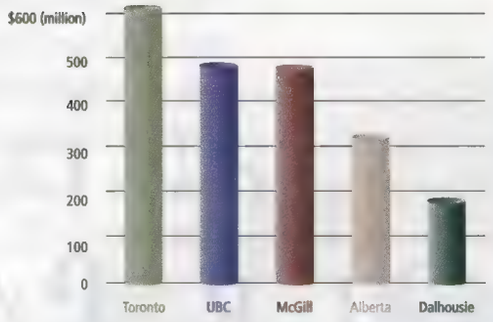

ENDOWMENTS AT CANADIAN UNIVERSITIES

As of December 31, 1996

As we approach the 21st century, we can no longer take for granted that outstanding students will continue to choose the University of Alberta. Other universities, including several American Ivy League schools, are aggressively recruiting Alberta's top high school students with offers of lucrative scholarships. At the graduate student level the competition is even more intense.

This competition is occurring at a time when tuition is rising dramatically and government support for post-secondary education is declining. The ability to compete for the best and brightest students is linked to the ability to offer financial support, and the University of Alberta is determined to ensure that no qualified student will be denied entrance simply because of his or her inability to pay.

In 1996-97 the University gave out awards to entering students totalling $1 million — that was a significant increase from previous years, but still well below the national average. We must do better, and with your help we will. Alumni make a difference, and we are looking forward to seeing the same strong level of support from alumni that has already been exhibited by faculty, staff, and students.

YOU MAKE A DIFFERENCE

Canada's future depends largely on the quality of its postsecondary institutions. We need to ensure the University of Alberta's long-standing commitment to quality teaching, research and service to the community continues as we approach the new millennium. This fundraising campaign will help us do that.

Campaign co-chairs, *from left to right,* The Rt. Honourable Don Mazankowski, P.C.; Catherine Roozen, V.P. Investments, Cathton Holdings Ltd.; Brian MacNeill, President and CEO, IPL Energy Inc.

As president of the Alumni Association for this past year, I have been privileged to meet hundreds of University of Alberta alumni. Many, of course, live right here in Edmonton; others now make their homes in distant parts of the world, but what they share is a deep pride in their alma mater.

That pride now calls us to action. Our University needs us. Today's students and tomorrow's students need us. A great deal is riding on the ambitious fund-raising campaign now underway. If the University of Alberta is to meet the challenges of the coming years, it will need the support that this Campaign is designed to provide.

Already the faculty and staff, the students, and the University's friends in the corporate community have shown their support. Now it's our turn.

The Alumni Association is proud to be a part of the launch of the Alumni Campaign with its goal of $21 million in scholarship funding. In many areas, our branches will be playing an important role in organizing campaign activities, and over the next few months, as many alumni as possible will be approached face-to face and asked to be a part of preparing the University for the next century.

Let's show that alumni really do make a difference.

Peter Graham, President
University of Alberta
Alumni Association

ALUMNI MAKE A DIFFERENCE!

AS A PROUD GRADUATE OF THE UNIVERSITY of Alberta, I have long had a vested interest in the future of my alma mater and I have sought to support it in any way I could. One way was to return and accept the challenge of becoming its president. Another has been to support it financially as a donor in the University of Alberta Campaign. The second contribution is no less important than the first.

OUR PART TO PLAY.

Roderick Fraser
President and
Vice-Chancellor

The University of Alberta is facing a critical, yet exciting period in its history. Within the University, the preparations have been made to meet the challenges of the next century — new programs and updated curricula geared to the needs of students and employers of the future, new partnerships with industry and the greater community, a streamlined administration that makes us the best-managed university in Canada. Now we as alumni have our part to play.

As president of the University of Alberta, I want to thank you for your support in the past — in time, in upholding the reputation of your alma mater, and in your financial gifts. As a fellow alumnus, I encourage you to join me in support of the Alumni Campaign. With your help, I am confident that the University of Alberta will achieve its vision for the 21st century — to be indisputably recognized, nationally and internationally, as one of Canada's finest universities, and amongst a handful of the world's best.

ALUMNI
MAKE A
DIFFERENCE!
$21 MILLION
21ST CENTURY
...it makes

UNIVERSITY OF ALBERTA CAMPAIGN

Please see attached reply card
for your opportunity to

MAKE A DIFFERENCE!

through a donation to the
University of Alberta Campaign.

...it makes *sense*.
UNIVERSITY OF ALBERTA

FACULTY OF AGRICULTURE, FORESTRY, & HOME ECONOMICS

WITH YOUR HELP, WE HAVE MADE GREAT STRIDES IN THE past year. Not just in terms of the blossoming support from our alumni and friends, but also in research capabilities and student enrollment.

FINDING FUTURE SOLUTIONS TODAY.

■ FACULTY CAMPAIGN

Our campaign is well underway. Alumni and supporters have made over three times more contributions in the past year, making our campaign a success so far. There is still room for you to become part of that success.

■ STUDENTS

We are working hard to attract outstanding students. We know that our students are crucial to the overall strength and reputation of the Faculty, and we want the best and brightest. Most importantly, we recognize that our ability to compete for these students is linked to our ability to offer financial support. As a result, we have established two entrance scholarships. These are the "Dean's Citation Awards" and the "On Your Marks Academic Excellence Scholarships."

Outstanding students in our Faculty won $45,000 in total scholarships and prizes in the past year. That trend of excellence continues and more scholarships are being created to support these hard-working leaders of the future. The Faculty has introduced a new internship program, giving all of our students the opportunity to get industry-related experience before they graduate.

■ RESEARCH

Support for improving our research facilities has meant a dramatic improvement in our research capabilities. Notably, there has been tremendous support for the Poultry Research Centre and for Dairy Research and Technology Centre. The expansion of the Dairy Research and Technology Centre means larger-scale research can be done and may lead to dairy products that are more in tune with consumer needs. In short, developing designer milk!

Some important new research initiatives for which the Faculty is also seeking support include a Centre for Material Culture – Textiles and Clothing, the Value-Added Food Technology Centre and an Institute for Enhanced Forest Management Research and Studies. In addition, private support can further the work being done at the Breton Plots and at the Devonian Botanic Garden.

■ BAR NONE ENDOWMENT

As a class initiative, the 1950 agriculture class has created the Bar None Endowment Fund. They invite all other agriculture graduates to support the fund, which will provide scholarships and bursaries for students studying agriculture within the Faculty.

YOU MAKE A DIFFERENCE!

The Faculty of Agriculture, Forestry, and Home Economics has identified the following as our priorities in the University of Alberta campaign.

- Undergraduate Scholarships and Bursaries
- Chair, Nutraceuticals and Functional Foods
- Rangeland Resources Management Postgraduate Endowment Fund

For more information, please contact:

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Recent changes in the Faculty of Agriculture, Forestry, and Home Economics have greatly enhanced the potential for conducting interdisciplinary research. Anne Naeth is a good example of a faculty member whose work crosses disciplinary boundaries. A specialist in reclamation and regeneration of disturbed ecosystems, she has done restoration work in both Banff and Jasper National Parks. Dr. Naeth also serves

as an example of the excellence in teaching that the Faculty strives for. The winner of the National Association of Colleges and Teachers of Agriculture Teaching Award for 1994-95, last year she became the 17th U of A professor (no other university has more) to win a 3M Fellowship, a national award recognizing excellence in teaching at Canadian institutions of higher learning.

UNIVERSITY OF ALBERTA

Laraine Coates knew she wouldn't be happy if she studied things that didn't capture her imagination. In the end that's what led the Strathcona County student to enroll in the Faculty of Arts in the fall of 1996. While she enjoyed the first year of the program and did well academically, concern over how she was going to pay for her subsequent years of study

was a major source of stress. But that's no longer the case. The psychology student is the first recipient of the Edmonton Journal Dean of Arts Award of Distinction, a three-year award worth $6,000. "This means a lot to me," says Laraine, referring to the scholarship which the Journal recently endowed. "It's really important that the corporate world acknowledges that we students are going to be out there working. We are the future ..."

STUDENTS ARE THE LIFEBLOOD OF THE UNIVERSITY AND our future. Need for student support in our Faculty is great. Our Faculty is on the move. Recent revitalization has seen us maximize accessibility to our programs and enhance the quality of teaching.

But to be successful, we need to ensure our programs remain accessible. Steeply rising fees, increased textbook prices and new computer equipment are all driving up the cost of post secondary education. To maintain reasonable accessibility to our liberal arts education, we feel the best proven long-term strategy is to establish more endowed scholarships and bursaries.

BUILDING THE FUTURE FOR STUDENTS.

■ SCHOLARSHIPS AND BURSARIES FOR UNDERGRADUATE STUDENTS

We hope to raise $3.5 million to fund 10 "Top of the Class" scholarships and 75 retention scholarships. Worth $10,000 each (over four years, based on continuing eligibility), "Top of the Class" scholarships are designed to attract the best academic students.

The Dean's Honours List Awards program will provide scholarship awards of $1,000 each to continuing students whose academic work has won them a place on the Dean's Honours List but who have not found other scholarship support.

We are also seeking to raise $1 million to expand our Building the Future for Students fund. For the nearly 6,000 students enrolled in the Faculty of Arts, there are at present only 240 awards and prizes. In 1991, in response to the wish of our alumni to provide support to current students, our Faculty established an endowment fund for bursaries giving a fee relief of $500. An endowment of $1 million would allow the Faculty to award 100 bursaries valued at $500 each session.

■ RECRUITMENT SCHOLARSHIPS FOR GRADUATE STUDENTS

Several of the graduate programs in the Faculty of Arts at the University of Alberta are among the leading such programs in Canada. The continued success of these programs will depend critically on our ability to recruit top quality graduate students.

To attract energetic, creative, intelligent and effective graduate students, we are committed to raising $3.5 million to yield 10 Graduate Student Recruitment Scholarships at $17,000 each.

YOU MAKE A DIFFERENCE!

The Faculty of Arts is seeking support for the following priorities within the University of Alberta campaign

- Undergraduate Scholarships and Bursaries
- Graduate Recruitment Scholarships
- Program in Western Canadian Archeology
- Timms Centre for the Arts: teaching stage and equipment
- Centre for Study of Languages and International Cultures
- Program in Western Canadian History
- Writer-in-Residence Program
- Women's Studies Program

For more information, please contact:

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STAYING ON TOP IN THE NATION.

THE FACULTY OF BUSINESS IS A NATIONAL leader in the area of teaching, research and community support.

Take teaching, for example. Three professors in the Faculty of Business have received 3M Teaching Fellowships — Canada's top award for university undergraduate teaching. That's more per capita than any other Faculty on campus and more than any other business school in Canada.

And then there's our record in research. Three of our four departments are ranked in the top three universities in Canada with respect to research performance through publication. Organizational Analysis, which ranked first in the country, was also ranked in the top ten internationally.

We did not achieve this success on our own. We achieved this success through the ongoing support of our alumni and friends.

A key reason the Faculty has been able to attract and retain outstanding professors is because of the money available for top-up funds through endowments established by our donors. These endowments have enabled us to function in a North American market where new PhDs draw an average starting salary of $110,000 in American business schools similar in size and reputation to ours. Normally, we would not be able to compete. But because of the endowments built over the past decade, the Faculty is able to attract excellent teachers and researchers.

However, times are changing. While we used to have the largest endowment pool of any business school in Canada, schools in the East are rapidly catching up and surpassing us. We also face an enormous recruitment challenge over the coming years. As faculty members retire, we will need to recruit more new professors. And our top-up funds are limited. If we are to maintain our status as a leader in business education, we need your help.

■ ENDOWMENT FOR YOUNG BUSINESS SCHOLARS

The Faculty of Business has established an Endowment for Young Business Scholars to fund five entry level positions in such important fields as Accounting, International Business, Finance, Marketing, and Management Technology. These endowments will be used to attract bright new recruits to the Faculty to replace faculty members who are retiring.

■ OTHER GIFT OPPORTUNITIES

There are other ways your gift can help. From establishing scholarships to supporting the Alberta Centre for Entrepreneurship, each dollar given to the Faculty of Business makes us better able to compete for outstanding staff and students. Whatever area you choose to support, you can be certain that your money will be used wisely.

If she could bottle and market her energy, Shelley Foster would no doubt be a millionaire. The U of A MBA student is chock full of passion for life — for work, for sports, for family, and for friends. A former competitive ski racer, now recreational skier and snowboarder, soccer player, track and triathalon athlete, in-line skater, sailor and windsurfer, Foster was the only Canadian MBA student hired for a work placement last year at Nike Incorporated, the sporting equipment giant based in Beaverton, Oregon. One of 185 interns chosen from more than 5,000 applications, at Nike she hobnobbed for four months with graduate students from places such as Harvard, UCLA, Stanford and Columbia.

YOU MAKE A DIFFERENCE!

The Faculty of Business is seeking support within the University of Alberta campaign for the following priorities:

- Endowment for Young Business Scholars
- Alberta Centre for Entrepreneurship
- Scholarships

For more information, please contact:

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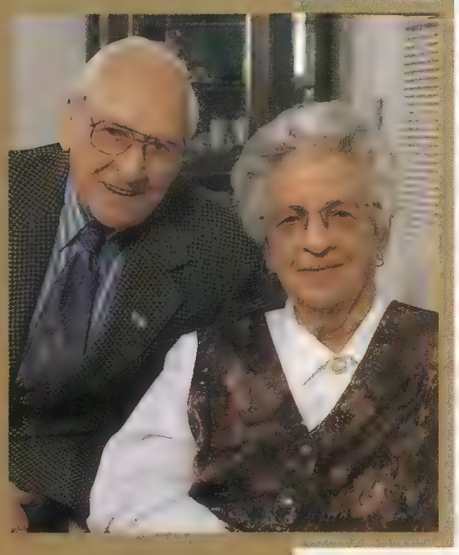
UNIVERSITY OF ALBERTA CAMPAIGN

THE VERY FIRST FACULTY OF EDUCATION IN CANADA, OUR Faculty has a distinguished history of training teachers, counsellors and administrators in an ever-changing discipline, a legacy upon which we continue to build. Offering unique programs and a wide range of training, our faculty was recently rated best overall in Canada. And as we head into the next millennium, we continue to strive for excellence in all of our programs.

A LONG AND PROUD HISTORY & A BRIGHT & GROWING FUTURE

If you had become a teacher alongside Vera Weir, your training would have lasted a year, your first class would have spanned eight grades, and you would have been paid the grand sum of $55 a month for your troubles. The profession has seen many changes since. "In the '70s, I taught at the Evelyn Unger School for Language and Learning, a school for children with learning disabilities. It was there I realized how much these students needed special education teachers." Motivated by that belief, Vera and her husband established the John and Vera Weir Scholarships in Special Education, four $750 scholarships awarded annually, along with provisions in their will for a long-term endowment. While the scholarships yield immediate rewards for the Weirs — "We get lots of satisfaction," says John, "lots of replies from the students, we've even met two or three of them" — more important is the legacy of teachers trained to help students in need early on. "It takes a good teacher to spot all that," says Vera, and she would know.



In support of this vision, we have three goals for the University of Alberta Campaign: student scholarships, the Severe Disabilities Endowment Fund, and the Literacy in the 21st Century Initiative.

YOU MAKE A DIFFERENCE!

The Faculty of Education is seeking support for the following priorities within the University of Alberta campaign.

- Student Scholarships
- The Severe Disabilities Endowment Fund
- The Literacy in the 21st Century Initiative

■ STUDENT SCHOLARSHIPS

Student Scholarships will allow us to attract the best students to the faculty. Some will provide support to high calibre students for the duration of their degree. Others, like the John and Vera Weir Scholarship described to the left, encourage students to pursue specialized training. Whatever the purpose, your scholarship support means drawing the brightest students to the Faculty of Education.

■ THE SEVERE DISABILITIES ENDOWMENT FUND

The J.P. Das Developmental Disabilities Centre was established in 1977 and provides services in a variety of areas, including research, assessment, professional training, and advocacy. Funding for the Centre will help support a host of new and ongoing projects, including: The Family Transformation Project, researching how the addition of a disabled child can improve family life; the study of violence as a cause of disability; training police officers to work with crime victims who have disabilities; development of a public resource Web site; development of materials on prevention of sexual abuse; and expanding the Centre's assessment and counselling services.

■ THE LITERACY IN THE 21ST CENTURY INITIATIVE

The Literacy in the 21st Century Initiative aims to overcome the growing problem of illiteracy. Your support would fund a variety of crucial projects, including the Reading and Language Centre expansion, the school-based Volunteer Mentorship Program, the Literacy Centre, research on Early Reading Intervention, and a professorship in Literacy Education.

For more information, please contact:

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WE ARE SETTING THE STANDARD FOR GIVING AT THE University of Alberta. Thirty-two per cent of our engineering alumni have made a financial contribution to the U of A; 36 per cent of our faculty and staff have donated to the University of Alberta Campaign; and an astonishing 100 per cent of our undergraduate students are contributing to the Faculty.

SETTING THE STANDARD FOR GIVING.

Second-year students Agnes Yuen, Tim Poon, and Sharon Embree are proof that the Faculty of Engineering is succeeding in its mandate to recruit the best. Agnes (Chemical Co-op) and Tim (Electrical Co-op) were awarded the two national C.D. Howe Foundation Awards for the top female and top male first-year engineering students in Canada. This is the first time both awards, valued at $18,000 over three years, have been received by one engineering school in the same year. Agnes also won a prestigious NRC Women in Engineering and Science Award as did Sharon, who is in the Faculty's Computer Co-op program. These awards are valued at $30,000 over three years and include research experiences in the NRC laboratories for the next three summers.

■ UNDERGRADUATE SCHOLARSHIPS

Employers and graduate schools look for outstanding engineering graduates. To remain competitive and to produce the graduates of choice the Faculty of Engineering needs to aggressively recruit the best students. Over the next three years, our goal is to double the number of students who enter our programs with high school averages greater than 90 per cent. Strong undergraduate scholarship programs will give us a competitive advantage that builds on our reputation as one of the top engineering faculties in North America.

■ GRADUATE SCHOLARSHIPS

Graduate students are essential partners in the internationally recognized research that is carried on in the University of Alberta. Their long-term commitment to developing a process, answering a question, or solving a theoretical problem is the key to research that is relevant and practical in its applications. To attract and retain the best graduate students, we must offer competitive top-up and discipline-specific scholarships. Ongoing financial support will allow us to continue building strong research teams.

■ UNDERGRADUATE EQUIPMENT FUND

Engineering is an applied science. Rapidly changing technology makes it essential that undergraduate students receive their education using today's equipment and tomorrow's technology. Emerging technologies make it necessary to provide laboratory facilities to support new areas of education. Your contributions to this fund will help ensure that our students receive relevant and competitive experience.

YOU MAKE A DIFFERENCE!

The Faculty of Engineering is seeking support for the following priorities within the University of Alberta campaign.

- Undergraduate Scholarships
- Graduate Scholarships
- Undergraduate Equipment Fund
- Chair, Petroleum Engineering
- Chair, Pulp & Paper Technology & Process Control
- Professorship, Microsensors & Materials
- Addition to the Civil/ Electrical Engineering Building

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UNIVERSITY OF ALBERTA CAMPAIGN

UNIVERSITY OF ALBERTA CAMPAIGN

The Faculty of Law is pleased to announce that it was chosen by the Canadian Bar Association as the site for the newly established Canadian Forum on Civil Justice. The Forum will become the centre of collaborative research into issues of civil justice reform, and the collecting and sharing of information concerning civil justice reform initiatives in Canada. "We are very excited in the Law Faculty," says Professor June Ross, the

Forum's academic director, pictured here with the dean of Law, Lewis Klar, in the Forum's new quarters within the Decore Centre. "This is a truly national institute," says Ross, "Our Board of Directors includes lawyers and judges from across Canada, and the problem that we will be studying exists as a problem at a national scale. We hope the Forum will put us at the cutting edge of research into badly needed reforms to the civil justice system."

FACULTY OF LAW

THE LAW FACULTY WAS CREATED IN 1912 AND FOR THE FIRST nine years cooperated with the Law Society of Alberta in providing a program of part-time legal education, before a full-time program was established in 1921. Law Campaign 75 was launched in 1996 to coincide with the 75th anniversary of the commencement of that full-time course of legal studies.

HONOURING THE PAST ENSURING THE FUTURE.

Honouring the past and ensuring the future are central themes of the campaign. The success of the first phase of the campaign, which sought the support of individual alumni, has led to increased support by alumni and accomplishment of some of our goals, but there remain needs to be met. In addition to the Alumni Campaign, we have embarked on our second phase — approaches to law firms.

The needs of the Faculty of Law are many and varied. They include increased funding for student bursaries and scholarships to attract the best undergraduate and graduate students from across the country and around the world — at this time over one quarter of our students come from outside of Alberta. Renovations to the building with campaign funds provided more library and teaching space, but funds are required to complete the renovations with the technology to enhance the research ability of students and to contribute to innovation in teaching. Support is required for endowed chairs, a sessional lecture fund, the Wilbur Bowker Fund and the newly established Hon. David C. McDonald Lecture Fund to endow the annual McDonald Lecture in Constitutional Law. Existing Centres and Institutes also require ongoing support to continue their top-level research and academic contributions.

The excellence of the faculty shows itself in the 14 books recently published by faculty members and the number of leading textbooks authored by members of the faculty which are utilized by law faculties across Canada. The Law Faculty is also home to several centres and institutes, including the Health Law Institute, the Centre for Constitutional Studies, the Alberta Law Reform Institute and the International Ombudsman Institute, which produce scholarly publications and organize international conferences.

YOU MAKE A DIFFERENCE!

The Faculty of Law is seeking support for the following priorities within the University of Alberta campaign.

- Undergraduate Bursaries and Scholarships
- Graduate Bursaries and Scholarships
- Law Building Renovations Fund
- Hon. David C. McDonald Lecture Fund
- Ongoing Support for Existing Centres and Institutes

For more information, please contact:

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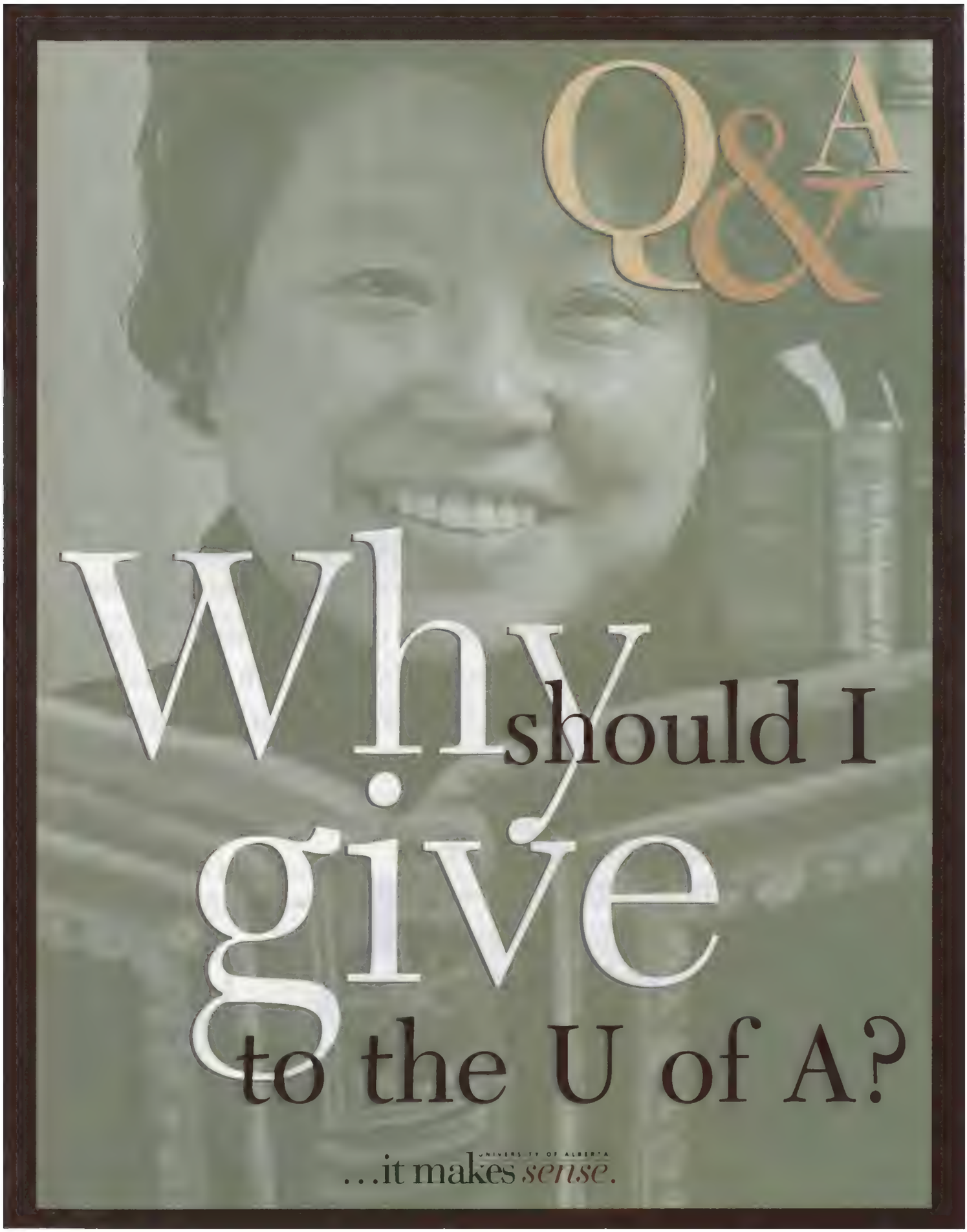

Q&A
Why should I give to the U of A?
...it makes sense.
UNIVERSITY OF ALBERTA

Good question.

We think it's an easy one to answer.

You attended a good university, likely at a time when governments were willing to foot the entire bill. That's no longer the case. As a result, we are diversifying our funding and, yes, we're expecting our graduates to give something back and our students to pay a little more. Your gift will help to ensure that the University of Alberta continues to flourish right here in Alberta as one of Canada's and the world's finest universities.

What's the U of A done for me and my community lately?

A lot. Our agriculture professors are working with farm organizations to find ways to preserve our soils and increase yields. Our forestry professors are working with forestry companies to develop more ecologically sound cutting practices. Our sociologists are tracking employment trends and advising governments and guidance counsellors about career planning. Our engineering professors are working with companies like Suncor and Syncrude to develop more efficient ways of extracting bitumen from tar sands. Our medical researchers are on-line, advising rural physicians about their diagnoses. Your children's teachers, educated at the U of A, are using the latest teaching strategies to teach reading and writing. And perhaps most importantly, our graduates like you are finding jobs all over the province, the country and the world.

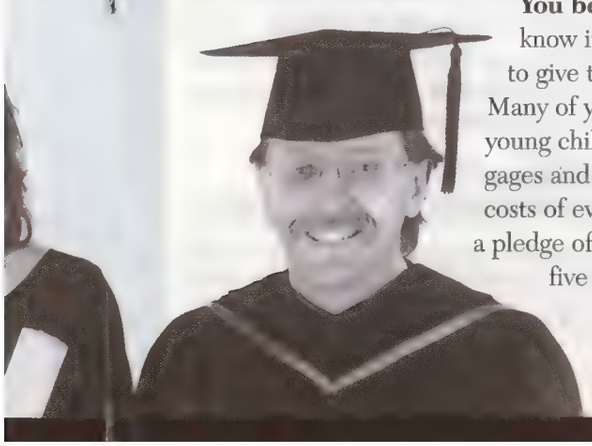
Why are you always asking me for money?

You're right. We are asking more often. But we're not bashful about that. People give because they are asked. Every year we ask you to contribute to our annual fund to meet ongoing needs. Now, we are halfway through a five-year fund-raising campaign. This campaign is about making your alma mater a great university and creating lasting endowments to provide stable funding for your children and your children's children.

I give to several other charities. What makes you think you're more deserving?

Chances are, the U of A is involved in a cause you care about. The U of A was a leader in ground-breaking research in the discovery of insulin, in Canada's first kidney transplant, in controlling diabetes, combating cancer and developing teaching strategies for learning disabled students. The U of A provides Alberta with the most highly educated workforce in the country. We educate leaders for business, industrial and social development to ensure Alberta's continued prosperity.

I haven't got a lot of money. Does $50 really matter?



You bet it does. We know it's easier for some to give than for others. Many of you are raising young children, paying mortgages and incurring all the costs of everyday living. But a pledge of $20 a month for five years would yield a $1,200 gift. It would allow us to increase student support, purchase new laboratory equipment and provide the most up-to-date teaching equipment. Modest gifts can add up to important contributions. Every dollar counts!

The U of A has lots of money. Why do you need more?

Our professors are paid less than their counterparts in Toronto and Vancouver. Our students have fewer scholarships and bursaries than students in Montreal, Toronto and Vancouver. Some of our facilities need repairs badly. It's expensive to operate a world-class university. Our funding per student is well below the University of British Columbia and University of Toronto, and far below what most American publicly-funded colleges and universities enjoy. To compete for the best and brightest students and for the best and brightest faculty, we need to be able to offer competitive programs and facilities. That costs money.

Why now? Is it really that urgent that I give today?

The long-term excellence of the University depends on you. We have set ambitious goals. But we cannot do it alone and we cannot wait. The University of Alberta Campaign will give us the ability to recruit and to support the top students and staff today. These are the people who will help the U of A become one of Canada's top two or three universities.

Is there a place for my children at the U of A?

The U of A has been a part of Alberta families for generations. We remain one of Canada's most accessible universities. Last year 163 full-time students hailed from Medicine Hat. More than 285 came from Lethbridge, over 1,200 from Calgary, 533 from Grande Prairie, 338 from Fort McMurray, 751 from Red Deer and 491 from Barrhead. Close to 3,000 came from other provinces and over 1,000 from around the world. We are truly an international university, serving Albertans from all corners of the province and students from around the world. We award over 50 per cent of the degrees in the province. Private funding will help us remain accessible so students from around the province can fulfil their educational dreams and lay the groundwork for lifelong prosperity.

I feel I was just a number when I was on campus. You really expect me to be grateful?

Many of our graduates attended the U of A when enrolment was at unprecedented high levels. That put strains on our professors, support staff and facilities. Today, however, the U of A spends more per capita on student services such as counselling, academic advising and career planning than most other Canadian universities. Over the last decade our faculties have steadily improved the quality of the student experience. You can be assured that giving to the U of A helps us maintain that commitment to the student as an individual.

How can I give?

There are many ways. You can simply write us a cheque or make a donation with your credit card. You can give monthly, perhaps through a payroll deduction plan or a pre-authorized chequing plan. Or you can give cash, securities, real estate, pledges, life insurance policies, gifts-in-kind, wills and bequests. And you can enjoy the tax benefits of charitable giving. Remember, it's not how much you give that's important, it's that you give.

Will my gift to the University of Alberta be matched?

Yes, your gift will be matched if you decide to support bursaries. The Province of Alberta has just established a matching program for bursaries. The provincial government will match, on a one-to-one basis, your contribution. That means for every dollar you donate for bursaries, the University actually earns two dollars to support needy students. Providing more student support is one of our priorities.

I've got several questions about giving to the U of A. Who do I talk to?

Phone the Development Office. We'll answer questions and send more information if you need it. You can also phone the faculty development officers. Our main phone number is **(403) 492-4418** or **fax (403) 492-1568**. We can also be reached North America-wide at **1-888-799-9899**.
Our E-mail address is: **dev.office@ualberta.ca.**

Our address is: **Development Office, 447 Athabasca Hall, Edmonton, Alberta, T6G 2E8.**

University of Alberta

FACULTY OF MEDICINE & ORAL HEALTH SCIENCES

AS ONE OF THE LEADING MEDICAL SCHOOLS IN CANADA, the University of Alberta Faculty of Medicine and Oral Health Sciences conducts leading-edge research within the context of a progressive medical training program. Our campaign priorities reflect our intention to remain at the forefront in both of these areas.

IMPROVING LIVES THROUGH RESEARCH & TRAINING.

WOMEN'S HEALTH PROGRAM

The establishment of a Professorship in Women's Health will recognize not only traditional health concerns related to childbirth, but also encompass such issues as osteoporosis, spousal abuse, menopause, gender equality, and wellness pertaining to women.

NATIVE HEALTH CARE CAREERS PROGRAM

The Native Health Care Careers Program was established to encourage more aboriginal students to pursue careers in medicine and other health professions, and to assist them to graduate successfully. As a result, the University of Alberta now ranks first in Canada in the recruitment of aboriginal students and first in the graduation of Native MDs, most of whom now work as primary care providers for aboriginal clients. The Faculty is seeking to establish permanent funding for the program.

THE CENTRE FOR GERONTOLOGY

The Centre for Gerontology is a multidisciplinary research unit that spans 10 University faculties focusing on concerns related to an aging population.

YOU MAKE A DIFFERENCE!

The Faculty of Medicine & Oral Health Sciences is seeking support for the following.

- Women's Health Program
- Native Health Care Careers Program
- The Centre for Gerontology
- Chair, Protein Engineering
- Professorship, Cytokine Research
- Biomedical Engineering
- Lipids and Lipoproteins

CHAIR, PROTEIN ENGINEERING

A chair in protein engineering will give focus and cohesion to the many programs in protein engineering and design on our campus, and bring together experts from a variety of fields, as well as spearhead the training of the next generation of chemists, biochemists, molecular biologists, biophysicists and computer scientists.

PROFESSORSHIP, CYTOKINE RESEARCH

The creation of this professorship will enhance the University of Alberta's ability to complete leading edge research and world-class teaching in the area of cellular immunology.

The Faculty is also looking for support of ongoing research programs and centres.

BIOMEDICAL ENGINEERING

The Biomedical Engineering research program is unique in Canada, aimed at enhancing the power of Nuclear Magnetic Resonance techniques and non-invasive analysis of the interior of the brain.

LIPIDS AND LIPOPROTEINS

The U of A's interdisciplinary Lipid and Lipoprotein Research Group is one of two leading centres in the world, as well as a national and international centre for graduate and post-doctoral training.

For more information, please contact:

Bert Murray, Director, Fund Development & Public Relations
Faculty of Medicine & Oral Health Sciences

2J2 Mackenzie Health Sciences Centre
University of Alberta, Edmonton T6G 2R7

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Holding a place of honour among posters of complex pharmacological formulas, a small wall plaque commemorates the young man who launched the research taking place in the surrounding labs. The plaque reads in part, "Peter Jang requested that some of the funds raised in his name be committed to medical research on behalf of other children." And that's just what Department of Pharmacology researchers Drs. Wendy Gati and Alan Paterson (pictured below) and their co-researchers at the Cross Cancer Institute, Drs. Paul Grundy and Andrew Belch, are doing. "The fact that we got the funds from the Peter Jang Fund is what really kick started the project," says Dr. Gati, "Without it, we might never have started." Instead these researchers are on the trail of a mechanism that makes some leukemia cells resistant to current drug therapies. If successful, their research could open the doors on alternative therapies not currently available. "If it is in fact a mechanism, we have ways to overcome it," says Gati, with the caution that research is a long story and it may be years before their research reaches clinical trials. Even so, there is reason to hope. "At this stage," says Gati, "our results are looking very encouraging."

People like Nursing Professor Emeritus Dr. Peggy-Anne Field are using deferred gifts as their way of supporting the Campaign. Dr. Field has a life insurance policy which names the University as its beneficiary. "In the long run it gives more to the University than I could ever give personally," she says. But even though the gift is deferred, the benefits are visible now.

Student scholarships are what attracted Melanie Willsey to the U of A. Says Willsey, "It certainly helped me make up my mind to attend the U of A. I hope the Faculty is able to establish more endowments for scholarships and awards, so that more students will benefit." With the help of people like Dr. Field, the Faculty is well on its way.

UNIVERSITY OF ALBERTA CAMPAIGN

FACULTY OF NURSING

NOW CELEBRATING ITS 80TH ANNIVERSARY, THE FACULTY of Nursing continues to be one of Canada's top nursing faculties. Our mission is to serve the community by sharing, advancing and applying our extensive nursing knowledge through teaching, research and public service.

LIGHTING OUR PATH TO THE FUTURE.

The Alumni Campaign will help provide the Faculty of Nursing with the resources to recruit and support outstanding students within a cutting-edge faculty. Our key priorities include:

STUDENT SCHOLARSHIPS

Scholarships are a key factor in attracting, retaining and educating the best students, whether at the entrance, undergraduate or post-graduate levels. Scholarships can be set up through an endowment which will fund an award in perpetuity or through annual donations. Current nursing awards range in size from $100 book awards to a $10,000 Dean's Citation — $2,500 awarded annually for four years.

RESEARCH

Our internationally recognized researchers are working on projects ranging from newborn infant crying to the delivery of health care in the developing world. Their work not only benefits people around the world, but enriches the education of nursing students. An expanded research effort will provide more opportunities for researchers and students alike.

CENTRES FOR INTERNATIONAL NURSING AND COMMUNITY HEALTH

In order to support both our local and international nursing projects, our Faculty is looking for support for its two nursing centres.

The Community Health Centre will provide students and researchers with a teaching and research facility targeted at the changing nature of health care. Here students develop their nursing skills and aid researchers developing new methods for health promotion and illness prevention.

The International Nursing Centre promotes a variety of international nursing initiatives, including an international resource centre, an international student fund and scholarships, faculty and student exchanges, joint research and curriculum development, international health projects and a conference travel fund.

YOU MAKE A DIFFERENCE!

The Faculty of Nursing is seeking support within the University of Alberta campaign for the following:

- Student Scholarships
- Research Funding
- International Nursing Centre
- Community Health Centre

For more information, please contact:

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Development Officer
Faculty of Nursing

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Edmonton T6G 2G8

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THE FACULTY OF PHARMACY AND Pharmaceutical Sciences has ranked number one on the national Pharmacy Examining Board of Canada examinations in eight of the past nine years. We boast one of the top two graduate programs in Canada, and rank in the top ten per cent in North America. We have achieved all this while working in 50-year-old facilities and maintaining the second-lowest cost per student on the U of A campus. Now, imagine what we could do with the very best students and scholars in a world-class research and training facility.

STAYING NUMBER ONE IN THE NATION.

The pharmacy profession has changed drastically over the past 50 years, but our facilities haven't kept pace. Teaching spaces are not well adapted to small group teaching methods, computer-assisted learning, and the introduction of technology into pharmacy practice, all of which will be key features in future programs. Laboratory areas are unsuited to modern research requirements, and often lack equipment for undergraduate teaching. The capacity of the Dentistry/Pharmacy Centre also makes expansion of either training or research programs next to impossible. The Faculty is long overdue for a move to modern facilities. So whether it's the acquisition of new undergraduate lab equipment or capital costs for a new Pharmacy building, upgrades to pharmacy facilities will allow us to attain even higher levels of excellence in the field.

YOU MAKE A DIFFERENCE!

The Faculty of Pharmacy and Pharmaceutical Sciences is seeking support for the following priorities within the University of Alberta campaign.

- Pharmacy Facilities Fund
- Student Scholarships & Bursaries
- Program Development and Curricular Reform

Another high priority is to have the funding in place to attract and retain the best and brightest students. Not only would increased undergraduate and graduate scholarships help draw students to the Faculty, but bursaries for fourth-year students would also help offset the cost of clinical rotations that can take students out of town, out of province, and even overseas.

The combination of new facilities, new student funding and new programs will help ensure that the Faculty of Pharmacy and Pharmaceutical Sciences will continue to rank as one of the very best faculties in North America.

For more information, please contact:

Susan Babcock
Development Officer
Faculty of Pharmacy and Pharmaceutical Sciences

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University of Alberta, Edmonton T6G 2N8

Phone: (403) 492-8375 Fax: (403) 492-1217
E-mail: sbabcock@pharmacy.ualberta.ca

For fourth-year student Lindsay Mason, getting her pharmacy degree has been a long time coming. "I've wanted to be a pharmacist ever since I can remember. When other seven-year-old girls said they wanted to be nurses or teachers, I said I wanted to be a pharmacist" — not so unusual since Lindsay's mother was a pharmacist as well. And she has no doubt that she's graduating from "the best pharmacy faculty in Canada." Even so, she's noticed a gap between what can be taught in the labs and what goes on in the real world. Her list will be familiar to most pharmacy grads: the shortage of computers and software, the need for facilities to support new curriculum, and a dispensing lab that's "a little dated." But she's as quick to point out the Faculty's biggest strength — the professors. "They do the best they can with the facilities and resources they have, which means they get very inventive and creative in their teaching. The profs are amazing."

UNIVERSITY OF ALBERTA CAMPAIGN

FACULTY OF PHYSICAL EDUCATION & RECREATION

THE FACULTY OF PHYSICAL EDUCATION AND RECREATION plays a unique dual role in our community. Within the University, the Faculty provides strong academic opportunities for study in both undergraduate and graduate programs, and through ongoing research. Wider audiences, both on and off campus, are served through inter-university athletics; through recreation opportunities open to students, staff, alumni, and the public; and through access to internationally-recognized research centres.

SUPPORTING COMMUNITY AS WELL AS FACULTY.

It was Panda-monium. It was a four-peat. For the fourth straight year the University of Alberta Pandas are the champions of CIAU women's volleyball. Playing before a packed Varsity Gym on Saturday, 7 March 1998, the Pandas claimed the national title by defeating the top-ranked University of Manitoba Bisons three games to one. In so doing they made history: they are the first U of A varsity athletic team to win a national title four years in a row.

The Panda volleyballers exemplify the successful combination of athletics and academics that the U of A is famous for. For six of the past seven years, the University of Alberta has had more Academic All-Canadians than any other school in Canada.

David Williamson

■ ACADEMIC SCHOLARSHIPS, AWARDS & BURSARIES

The Faculty of Physical Education and Recreation seeks to attract students who combine the best of academic and athletic abilities. As costs rise and government involvement lessens, it is our responsibility to ensure that no deserving student is denied access if a scholarship, award or bursary makes it possible for them to attend the University of Alberta.

Awards at both the undergraduate and graduate level help to preserve the Faculty's tradition of excellence in scholarly study and research. It is essential that we provide for endowed awards to secure a stable funding base that will help us attract the best and brightest students. It is also of paramount importance to provide bursaries for students experiencing financial need.

YOU MAKE A DIFFERENCE!

The Faculty of Physical Education and Recreation is seeking support for the following priorities within the University of Alberta campaign.

- Academic Scholarships, Awards, & Bursaries
- Athletic Scholarships, Awards, & Bursaries
- Additional Ice Surface
- Athletics & Recreation Endowment

■ ATHLETIC SCHOLARSHIPS, AWARDS & BURSARIES

In an increasingly competitive market for outstanding students, our goal must be the development and preservation of scholarships, awards and bursaries which enable us to attract the calibre of well-rounded student athlete for which the U of A has become recognized.

Our record of achievement speaks for itself. For six of the last seven years, the University of Alberta has led the nation in the number of student athletes whose success in combining academics and athletics has earned them recognition as Academic All-Canadians. These students come from virtually every faculty on campus. In fact, close to 80 per cent of the almost 400 student athletes who compete for the 17 Golden Bear and Panda teams are registered in faculties other than the Faculty of Physical Education and Recreation.

For more information, please contact:

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Faculty of Physical Education and Recreation

W1-34H Van Vliet Centre
University of Alberta, Edmonton T6G 2H9

Phone: (403) 492-1002 Fax: (403) 492-1008
email: dale.schulha@ualberta.ca

BUILDING A FUTURE IN REHABILITATION.

IN ORDER FOR THE FACULTY OF REHABILITATION MEDICINE to remain one of Canada's best, we need three things: the best students, the best scholars, and a state-of-the-art facility in which they can work, discover and learn. Our campaign projects aim to do just that.

■ UNDERGRADUATE AND GRADUATE STUDENT SCHOLARSHIPS IN REHABILITATION MEDICINE

As a result of rising tuition and placements that minimize summer job opportunities, our ability to compete for and retain the best and brightest undergraduate students is linked increasingly to our ability to support them financially. Likewise for graduate students in both our Master's and PhD programs. We must offer attractive financial support in order to continue to draw them to the U of A. Endowments for undergraduate and graduate scholarships will assure a stable source of scholarship funds.

■ EXCELLENCE IN REHABILITATION FUND

The Faculty of Rehabilitation Medicine also needs to attract leading scholars to the University of Alberta. Creation of the Excellence in Rehabilitation Fund will enable us to do so. The work of these scholars will support key areas of research as well as provide mentoring for the next generation of students, researchers and teachers.

■ THE REHABILITATION RESEARCH WING

The construction of a research wing in Corbett Hall will complete the restoration of this historic building and provide a first-class facility for knowledge discovery in rehabilitation. Expansion of the Faculty's research staff is currently impossible due to limited space. This project will add 16,000 square feet of laboratory, office and classroom space, including a state-of-the-art "wired" classroom for outreach and international educational collaboration. The result will be increased opportunities for students and staff to participate in world-class research in Rehabilitation Medicine.

YOU MAKE A DIFFERENCE!

The Faculty of Rehabilitation Medicine is seeking support for the following priorities within the University of Alberta campaign.

- Undergraduate and Graduate Student Scholarships in Rehabilitation Medicine
- Excellence in Rehabilitation Fund
- The Rehabilitation Research Wing

For more information, please contact:

Anita Yates, Development Officer
Faculty of Rehabilitation Medicine

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University of Alberta, Edmonton T6G 2G4

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For people with spinal cord injuries, the benefits of graduate scholarships can be measured in their quality of life. PhD candidate Laura May has been working to validate measures of quality of life, explaining that while traditional indicators such as strength can be more readily assessed, they serve only as an indirect indication of the quality of life a client can expect after treatment. "But if quality of life is our ultimate goal, then we should be looking at how we measure it." The resulting improvements in rehabilitation programs will not only benefit clients with spinal cord injuries, but also stroke victims and people with multiple sclerosis and cerebral palsy. These benefits are all a direct result of scholarship money being available in the Faculty. "With a family, I couldn't borrow on top of the loss of income from being a student full-time. Had I not had the financial means, I would not have continued in my studies." Instead, May's research and award-winning teaching will benefit clients and students alike for many years to come.

In August 1997, after an interval of a few years, the group known as L'Amicale Saint-Jean resumed its activities, holding a homecoming (Grand rassemblement des anciens) to mark the Faculté Saint-Jean's twentieth year as a faculty within the University of Alberta. By their presence at this event, more than 200 people demonstrated their attachment to their alma mater which, like the University of Alberta itself, was founded in 1908.

UNIVERSITY OF ALBERTA CAMPAIGN

FACULTÉ SAINT-JEAN, AN INSTITUTION THAT IS almost a century old and has educated several generations of community leaders, provides both francophones and francophiles with a one-of-a-kind education.

EDUCATION WITH AN EDGE — THE LANGUAGE ADVANTAGE

To help it reach its objectives, Faculté Saint-Jean is appealing to all alumni who remain sympathetic to its cause. In this way, it hopes to fulfill its wish to extend its influence and gain national and international recognition as one of the best post-secondary French-language institutions in Canada.

YOU MAKE A DIFFERENCE!

The Faculté Saint-Jean is seeking support in the following areas within the University of Alberta Campaign.

- Faculté Saint-Jean Student Residence
- Louis Desrochers Chair in Canadian Studies
- Scholarship Program

FACULTÉ SAINT-JEAN STUDENT RESIDENCE

Given its geographic location, Faculté Saint-Jean offers special advantages for the development of bilingualism in Canada. Since the opportunity to experience life in an immersion environment is a decisive factor when it comes to mastering a second language, it comes as no surprise that a large portion of Faculté Saint-Jean's students are anglophones and people from other countries. The fact that Faculté Saint-Jean offers an opportunity to live in residence in a French-speaking environment is a considerable asset when recruiting such students. The aim of this project is to meet the needs in this area through construction of a new residence capable of accommodating 80 students, renovation of an historical building that dates back to 1911, the establishment of new facilities encouraging research activities related to Canadian Studies and to language and culture, and creation of a museological component to the facility.

LOUIS DESROCHERS CHAIR IN CANADIAN STUDIES

The object of creating the Louis Desrochers Chair in Canadian Studies is to promote a multidisciplinary approach to the study of Canada. The appointment of a distinguished teacher who is also a leader in his or her chosen field will lead to a greater integration of teaching and research where Canada is the subject.

The establishment of this chair will not only enhance the teaching and research environment at Faculté Saint-Jean, but will also enable the institution to play a leading role at the national and international level.

SCHOLARSHIP PROGRAM

A new scholarship program, which includes academic excellence scholarships, will provide financial assistance to francophone students outside Quebec, students in an immersion program, students from Quebec, and students from francophone countries

For more information, please contact:

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Faculté Saint-Jean

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Telephone: (403) 465-8704 Fax: (403) 465-8760
E-mail: roger.lincourt@ualberta.ca
Visit our Internet site: http://www.fsj.ualberta.ca

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MAKE A DIFFERENCE

WITH THE FOLLOWING DONATION:

☐ $50 ☐ $100 ☐ $250 ☐ $500
☐ $1000 ☐ other_____

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☐ My company will match this gift.

☐ I will provide for the U of A in a will.

I WOULD LIKE MY GIFT TO SUPPORT

☐ Scholarships and bursaries in the Faculty of _____

☐ Other _____

_____

☐ I would like my gift to count as part of a class reunion gift. Class of _____

PLEASE FIND ENCLOSED:

☐ a cheque ☐ post-dated cheques
(*please make payable to University of Alberta*)

☐ credit card: ☐ VISA ☐ MasterCard

Expiry Date _____

Credit Card No. _____

Cardholder's Signature (*please sign for validation*)

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PLEASE SEND ME MORE INFORMATION ON:

☐ How to include the University of Alberta as part of a will, life insurance or other planned gift instrument.

☐ The automatic giving program (ACT).

☐ Matching gift programs.

PLEASE BE SURE TO PROVIDE YOUR NAME AND ADDRESS ON THE REVERSE.

OVER →

NTI

PLEASE DIRECT DONATIONS, OR ANY RELATED INQUIRIES TO:

Development Office
4th Floor Athabasca Hall
University of Alberta
Edmonton, Alberta T6G 2E8

Phone: (403) 492-4418 Fax: (403) 492-1568
Toll-free in North America: 1-888-799-9899

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THE FACULTY OF SCIENCE ATTRACTS AND EDUCATES SOME of the brightest students in the country and in the world. To maintain a reputation of excellence we must provide support to these future leaders.

TECHNOLOGY IN THE FOREFRONT.

The Faculty of Science is committed to continuing its record of excellence in recruiting and training outstanding undergraduate and graduate students. Competition for these exceptional students is becoming progressively more intense. The need to offer financial assistance is becoming more and more demanding in the face of rising post-secondary education costs. The Faculty has committed to a plan to increase the number and value of available scholarships in all departments. With alumni support, we can do just that.

ENTRANCE SCHOLARSHIPS

Every student entering the Faculty from high school with an average of 90 per cent or better receives a $500 Entrance Scholarship. Last year, the Faculty awarded 158 of these, many of them funded by gifts from alumni. Each year, the top seven students entering Science receive a Dean's Citation Award valued at $10,000. To sustain and grow this program for new students, the Faculty hopes to establish an endowment of $2 million.

UNDERGRADUATE SCHOLARSHIPS

Top performing undergraduate Science students are eligible for annual scholarships worth $500. Last year the Faculty awarded 50 of these to students entering second year. This year 50 will be awarded to second-year students and an additional 50 will be awarded to students entering third year. Next year, 50 will be awarded to students entering each of second, third and fourth year. Eventually we hope to increase the value of these annual awards to $1000 each.

The establishment of a $3 million endowment will help us retain these exceptional students and maintain our reputation as an outstanding Faculty.

GRADUATE SCHOLARSHIPS AND RECRUITMENT SCHOLARSHIPS

The Faculty has outstanding graduate programs in all departments. A strong scholarship program puts our graduate programs in a solid competitive position for recruitment of outstanding students both nationally and internationally. The quality of graduate students has a direct impact on the quality of our research programs and the long-term health of research in the Faculty.

The Faculty hopes to establish a $3 million endowment to offer ongoing support to graduate students and to set up several $5,000 recruitment scholarships.

COMPUTING SCIENCE EXPANSION

Computing Science graduates are in high demand and our programs are currently oversubscribed and additional space is critically needed.

Support for the Computing Science Space Expansion and its associated teaching and research activities will enhance the already-recognized excellence of the Faculty of Science in Canada and internationally.

YOU MAKE A DIFFERENCE!

The Faculty of Science is seeking support in the following priorities within the University of Alberta Campaign.

- Entrance Scholarships
- Undergraduate Scholarships
- Graduate Scholarships
- Roger Morton Chair, Economic Geology
- C.R. Stelck Chair, Petroleum Geology
- R.U. Lemieux Chair, Carbohydrate Chemistry
- Chair, Ecosystem Management
- Computing Science Expansion

For more information, please contact:

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Science students Howard Cheng, Alan Skelley, and Adam Beacham came up with a world-class performance in late February at the ACM International Collegiate Programming Contest. Competing against 53 computer programming teams from around the globe, the U of A team placed a solid eighth in

the contest won by Charles University from Prague. At the competition, held in Atlanta, the teams got eight problems to solve in five hours and were warned that two were too complex to be solved in the time allowed. "A big skill is knowing what to tackle," says their coach, Pitor Rudnicki of the Department of Computing Science where Cheng, Skelley, and team alternate Neil Burch are students; Beacham is a mathematics student. To earn a spot in the Atlanta competition, the U of A team defeated 24 other North American teams at an earlier qualifying tournament.

UNIVERSITY OF ALBERTA CAMPAIGN

UNIVERSITY OF ALBERTA CAMPAIGN

FACULTY OF GRADUATE STUDIES & RESEARCH

WITH ITS RESPONSIBILITY FOR THE GENERAL ADMINistration of graduate programs, the Faculty of Graduate Studies and Research is involved with graduate students from their admission and registration to their convocation.

PARTNERS IN EDUCATION.

Graduate students are partners in the teaching and research mission of the University. They instruct thousands of undergraduate students in vital laboratory courses and work closely with professors carrying out research programs and creating new knowledge.

Graduate students are also tomorrow's knowledge workers, and the competition among universities for top graduate students is intense. If the University of Alberta is going to continue to attract and retain first-class graduates students, new scholarships and bursaries are needed.

To this end the University recently negotiated an agreement with the U of A Graduate Students' Association whereby more than $8 million will be redirected from tuition fees to the creation of graduate scholarships. The University has further committed to raising $8 million for the establishment of endowments to support graduate recruitment scholarships.

YOU MAKE A DIFFERENCE!

The Faculty of Graduate Studies and Research is seeking support for the following priorities within the University of Alberta Campaign.

- Graduate Student Tuition Scholarships
- Graduate Scholarships and Bursaries Endowment

For more information, please contact:

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Scholarships Coordinator
Faculty of Graduate Studies and Research

105 Administration Building
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Edmonton T6G 2M7

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E-mail: lynne.frauenfeld@ualberta.ca

UNIVERSITY OF ALBERTA CAMPAIGN

SCHOOL OF NATIVE STUDIES

THE SCHOOL OF NATIVE STUDIES FOSTERS THE INTEGRATED study of Aboriginal experience. As a result, the School's approaches are interdisciplinary, blending indigenous people's philosophies with other philosophies.

JOINING RESPECT AND EXCELLENCE.

Underlying the School's program are two distinct yet related themes. The first theme is respect for indigenous knowledge systems, including languages, cultures and philosophies. The second theme is the University's emphasis on research excellence. Together the themes focus on the School's developing a research capability to address issues affecting Indian, Inuit, and Métis people today.

A focus within the School is community-based research, and funding is needed for scholarships and bursaries to assist students pursuing that research. Recently the School has had a new honors degree program approved and, in support of that program, there is a need for entrance scholarships to attract outstanding students, and for scholarships and awards to recognize exceptional achievement within the program.

YOU MAKE A DIFFERENCE!

The School of Native Studies is seeking support for the following priorities within the University of Alberta Campaign.

- Undergraduate scholarships and bursaries

For more information, please contact:

Richard Price
Acting Director
School of Native Studies

11023 90 Avenue
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FACULTY OF EXTENSION

UNIVERSITY OF ALBERTA CAMPAIGN

THE FACULTY OF EXTENSION PROVIDES OPPORTUNITIES for people to engage in life-long learning, and is committed to creating a climate for innovation and collaboration. It offers a variety of continuing education courses and programs for personal development and career enhancement and is home to the Office of Special Sessions.

LEARNING FOR A LIFETIME.

One of the traditional areas of involvement for the Faculty is the visual arts. Recently, family and friends of the late Henry Wohlfarth created a memorial award program in his honor. Wohlfarth, who taught in Extension for almost 40 years, was a painter and sculptor and an internationally-recognized pioneer in the area of color kinetics and psychodynamics. Through the University of Alberta Campaign, the Faculty is hoping to increase both the number and the value of the Wohlfarth Awards, which will be presented annually to students in the Faculty who have demonstrated excellence in their visual arts courses.

YOU MAKE A DIFFERENCE!

The Faculty of Extension is seeking support for the following priorities within the University of Alberta Campaign.

- Wohlfarth Memorial Award
- Law Now Campaign

The Faculty is also seeking support for an important publication of its Legal Studies Program. For 18 years, *LawNow* has provided unique insights into our changing social conditions by examining and reflecting on contemporary issues from the perspective of the law. Originally funded by the Alberta Law Foundation, *LawNow* is seeking a broad base of support to ensure that its valuable work continues.

For more information, please contact:

Fran Ross
Director of Marketing Services
Faculty of Extension

4-23 University Extension Centre
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Edmonton T6G 2T4

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MORE GIFT INFORMATION

UNIVERSITY OF ALBERTA CAMPAIGN

There are two particularly important ways to make your gift to the University of Alberta CAMPAIGN:

YOU MAKE A DIFFERENCE!

Types of gifts accepted by the University of Alberta CAMPAIGN:

- Cash
- Securities
- Real Estate
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- Life Insurance Policies
- Gifts-in-kind
- Wills and Bequests

■ UNRESTRICTED GIFTS

UNRESTRICTED GIFTS provide the University of Alberta or your faculty the flexibility to respond to unforeseen needs; make timely curriculum changes; purchase new technological tools; provide seed money for promising new research and teaching methods; and give deans the flexibility to make timely and important decisions.

■ ENDOWMENT FUNDS

Gifts to a permanently named ENDOWMENT FUND provide stable funding and allow the University to make longer-term decisions.

A list of endowment opportunities is available from the University of Alberta Development Office.

■ GIFT NAMING OPPORTUNITIES

Gifts designated for equipping laboratories and upgrading classrooms, renovation and restoration of existing buildings, and new construction are important priorities. In naming buildings and facilities, priority will be given to the development of connections with individuals, corporations, and organizations prepared to offer significant support for the University's priorities. A comprehensive list of named gift opportunities is available from the University of Alberta Development Office.

For more information on the University of Alberta Campaign, please contact

Director of Development
Development Office

4th Floor, Athabasca Hall
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Edmonton, Canada T6G 2E8

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Toll-free in North America:
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Fax: (403) 492-1568
E-mail: dev.office@ualberta.ca
www.ualberta.ca/~developo/campaign/

UNIVERSITY OF ALBERTA CAMPAIGN

...it makes *sense*.

TRAILS

FOLLOWING THE FOOTSTEPS OF UNIVERSITY OF ALBERTA ALUMNI

Bursting with energy and color, the artwork "It's Better Together" by artist **Patricia Mykietowich**, '91 BEd, leaps off the cover of the 1998 Edmonton and area white pages telephone book. Incorporating seven icons that represent different local festivals – including Heritage Days, First Night, the Fringe, and Jazz City – the work also contains prominent Edmonton landmarks such as the Muttart Conservatory and the High Level Bridge. Mykietowich is an Edmonton artist whose work has reached around the globe to Spain, Japan, Belgium and Holland. ■

UNIVERSITY OF ALBERTA ALUMNI ASSOCIATION

Executive Committee

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Peter Graham, '66 BCom

Past-President and Vice-President (Bylaws & Nominating)
Maury Van Vliet, '61 BSc, '64 LLB

Vice-President (Programs)
Al Jacobson, '78 BCom

Vice-President (Communications)
Ralph Young, '73 MBA

Vice-President (Special Events)
Denele Somshor-Walsh, '77 MEd

Board of Governors Representatives
James Beckett, '73 BSc(Eng)
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Senate Representatives
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Arts
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Education
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Engineering
Gerry Devine, '76 BSc(Eng)

Faculté Saint-Jean
Claudette Roy, '68 BEd

Graduate Studies and Research
Mary Fairhurst, '75 PhD

Law
John Gill, '80 LLB

Medicine
Gerald Moysa, '70 BA, '74 MD

Nursing
Dorothy Reynolds, '64 Dip(Nu), '65 BSc(Nu)

Pharmacy
Dwayne Samycia, '76 BSc, '79 BSc(Pharm)

Physical Education and Recreation
Barry Anderson, '74 BA (Rec Admin), '95 MA

Rehabilitation Medicine
John Voyer, '85 BSc, '90 BSc(OT)

Science
Jean Crozier, '84 BSc

Members at Large
Al Jacobson, '78 BCom
Carol Wilson, '74 BEd

U of A Faculty
Gary Faulkner, '63 BSc, '66 MSc

Graduate Students' Association
Julie Harris

Students' Union
Sheamus Murphy

CLASS REUNIONS '98

Reunion Weekend '98 (RW98) will be held **October 1-4.** For more information or to plan a reunion, call Alumni Affairs.

Year & Class/Date & Place/Contact:
'28 All faculties/RW98/Alumni Office
'38 All faculties/RW98/Alumni Office
'38 Dent/RW98/M. Chechik
'38 Home Ec/RW98/C. Smith
'38 Law/RW98/E. Bredin
'38 Med/RW98 & 17 Sept, Calgary/R. Clare
'48 Arts/RW98/H. Potter
'48 Dent/RW98 & 11 June, Jasper/A. Urschel
'43 Educ(Dip)/RW98/M. Dzenick
'43 Home Ec/RW98/T. Beauchamp
'48 Ag/RW98/P. McCalla
'48 Bus/RW98/D. Clarke
'48 Chem Eng/RW98/D. McEachern
'48 Civ Eng/RW98/V. MacKay
'48 Educ/RW98/E. Potter
'48 Elec Eng/RW98/A. Robertson
'48 Geology/RW98/M. Shier
'48 Home Ec/RW98/N. Robertson
'48 Law/RW98/P. Owen
'48 Med/17 Sept, Calgary/J. Lipinski
'48 Min Eng/RW98/B. Spencer
'48 Nu(Dip)/RW98/M. Grimsrud
'48 Nu(Dip) (Jan)/RW98/M. Robb
'48 Nu(Dip) (Sept)/RW98/M. Hole
'48 Pharm/RW98/D. Cameron
'53 Ag/RW98/A. Reddon, J. Markovich
'53 Bus/RW98/N. Romalo
'53 Chem Eng/RW98/J. Jenkins
'53 Civ Eng/RW98/N. Longson
'53 Dent/RW98/D. Buchanan, R. Mullen
'53 Educ/RW98/Sr E. Antonio
'53 Law/RW98/A. Ackroyd
'53 Med/RW98 & 17 Sept, Calgary/F. Haley
'53 Pet Eng/RW98/R. Fisher, E. Hughes
'53 Pharm/RW98/G. Mazurenko
'53 Student Council/RW98/E. Stack
'53 Gold Key Society/RW98/D. Walker
'58 Bus/RW98/S. Sidjak
'58 Chem Eng/RW98/D. Thurston
'58 Civ Eng/RW98/K. Brown, R. Alton
'58 Dent/RW98/J. Duncan
'58 Educ(Dip)/RW98/L. Gajdostik
'58 Elec Eng/RW98/A. Sadesky, A. Baird
'58 Geology/RW98/B. Henson
'58 Home Ec/RW98/B. Kozoriz
'58 Law/RW98/T.W. Gallant
'58 Med/16 May & 17 Sept/L. Anholt
'58 Nu(Dip)/Aug Calgary/E. Bartkiewicz
'58 Pharm/RW98/V. Horon
'58 Phys Ed/RW98/L. Wood
'58 Student Council/RW98/G.Campbell
'63 Ag/RW98/G. Coen
'67 Rehab Med (Dip)/RW98/K. Jackson
'68 Bus/RW98/G. Cuthbert
'68 Chem Eng/RW98/P. Daniel
'68 Dent Hyg/RW98/S. Barry
'68 Dent/11 June, Jasper/B. Urner
'68 Educ/RW98/M. Burt
'68 Elec Eng/RW98/D. Rossi
'68 Home Ec/RW98/L. Fox
'68 Nu/RW98/D. Betke, J. Ashmore
'68 Pharm/RW98/P. Carey
'68 Rec Admin/RW98/J. Berg
'68 Student Council/RW98/A. Anderson
'73 Ag/RW98/T. Degenhardt
'73 Bus/RW98/H. Banister

Dialing for Dollars – All for the U of A!

Through an affinity program with TELUS and the U of A, alumni can help students achieve a brighter future while at the same time enjoying long-distance telephone savings for themselves with TELUS's Your Way Long Distance Savings Plan.

TELUS Communications Inc. and the U of A have enjoyed an affinity partnership since 1995. It has now been extended to include the Alumni Association. All alumni can save on long-distance calls with TELUS while helping the U of A's Alumni Campaign reach its $21 million goal.

When alumni enrol in TELUS' Your Way Long Distance Savings Plan, TELUS will contribute a portion of their long-distance charges to the Alumni Association.

All contributions made by TELUS to the Alumni Association through the affinity program will be directed towards the Alumni Campaign, in support of student scholarships and bursaries.

*To join the TELUS affinity program for U of A alumni, with **no sign-up fee**, call 1-888-544-0544 or complete and return the card between pages 24 and 25 of this issue.*

Alumni Association president Peter Graham (left) and 1997 Distinguished Alumni Award winner Stephen Ramsankar (right) help welcome two prospective students to the U of A at the Education Connection special event this past February. The event brought together alumni, faculty, and friends to introduce high-school students to the Faculty of Education's offerings. The Faculties of Arts and Agriculture, Forestry and Home Economics hold similar alumni and student recruitment events each year.

Smile if it's Your Reunion in 1998

The Alumni Association is already working with nearly 200 enthusiastic reunion organizers who are helping to attract alumni back to campus for Reunion Weekend '98, from October 1–4. (See ad on page 31 of this issue.)

For the first time ever, past Student Council and Gold Key Society members are planning to hold reunions in conjunction with Reunion Weekend.

The Office of Alumni Affairs offers various services to alumni who are planning class reunions, including mailing letters and providing class lists to reunion classes.

More than 50 reunion organizers attended reunion planning workshops in February and April. There they shared information and received tips on successful reunion planning.

For more information about reunion planning services offered, contact Gina Wheatcroft in the Office of Alumni Affairs (see page 29).

Association Calendar

Branches

If you live in one of the following areas, watch your mail for details of upcoming alumni events:

San Francisco
1 May 1998
11th Annual Canadian and American Dinner
Guest speaker: James Leach, deputy consul general and senior trade commissioner

Lethbridge
26 May 1998
Alumni Dinner
Guest speaker: Dr. Rod Fraser

Red Deer
May 1998
Alumni Reception

Medicine Hat
May 1998
Alumni Reception

Ft. McMurray
June 1998
Alumni Reception

Toronto
28 May & 17 September 1998
Thursday Mixers
June 1998
Dragon Boat Race and Barbecue
October 1998
AGM & luncheon
Call Fred Heath at (416) 483-8818

Calgary
3 June 1998
Alumni Reception & Spruce Meadows equestrian event
Guest speaker: Dr. David Lynch, Faculty of Engineering dean
For group transportation from Edmonton, call the Office of Alumni Affairs at 492-3224.
For event information, call Keith Sveinson at (403) 289-2471

Kelowna and Penticton
16 & 18 June 1998
Alumni Reception & Brunch
Guest speaker: Dr. Terry Flannigan, associate vice-president (external affairs)

Head Start and Heads Up

The Business Alumni Association at the U of A recently joined with Junior Achievement of Northern Alberta to design a program that will help expose Junior Achievement students to the world of business. Junior Achievement is an educational, non-profit organization offering young people around the world the opportunity to gain an understanding of the free enterprise system.

With the help of the Business Students Association, business alumni will be encouraging Grade 12 Junior Achievement students to visit the University, accompanied by a business student partner. The goal of the visits is to help high school students make informed decisions about their educational choices, including exciting opportunities available through the Faculty of Business. The Business Alumni Association also hopes to enlist business alumni to volunteer to host Junior Achievement participants for a "day at the office."

According to Business Alumni Association President **Eric Hayne**, '66 BCom, this program provides a winning opportunity for both groups. "We're excited by this initiative as the Business Alumni Association will be helping future alumni gain firsthand experience with what really goes on in a business environment, and we are giving students a closer look at the Faculty of Business at the U of A."

Alumni interested in hosting a Junior Achievement student can contact Susan Robertson in the Faculty of Business at 492-2348.

Help Welcome a Foreign Student

We've all started something new – a first day at school, a new job, an unfamiliar task. Remember the feelings of trepidation? Of being overwhelmed by the influx of new information? Now imagine facing this while having to adapt to a completely new culture as well. Scary, isn't it?

You can help ease that daunting experience for an international student enroled at the U of A by participating in the Host Program. Together you can create a memorable journey of discovery, and find that change offers a chance for growth, new life experiences, and new friendships.

The University of Alberta Alumni Association and the International Centre pair alumni with international students in the Host Program. The program is designed to promote friendship and provide an opportunity for you, your family, and a foreign student to exchange cultural traditions and experiences through shared activities. It is *not* a program through which foreign students find accommodation.

Many students have left family and friends behind to study at the U of A and are looking for social support and interaction. Hosting an international student involves spending a bit of time with them and sharing Canadian culture and your family activities. This might be as simple as regular telephone conversations or an invitation to a holiday celebration.

To volunteer as a host or as a coordinator (assisting in building and maintaining host family relationships and planning events) please contact Tracy Larsen at 492-5726.

Rome, Italy
June 1998
Alumni Reception

St. Albert
25 September 1998
Alumni Reception at St. Albert Education Fair (September 25-27)

Constituent Groups

Dental Alumni Association
11 June 1998
Members Reception and Awards Ceremony
ADA Conference, Jasper
Contact Coleen Graham at (403) 492-4523

Business Alumni Association
8 October 1998
Annual Dinner
Guest Speaker: Peter Lougheed
Contact Susan Robertson at (403) 492-2348

Medical Alumni Association
17 September 1998
Annual Awards Dinner
Westin Hotel, Calgary
Grads from 1938, 1948, 1958 and 1973 will be honored.
Contact Coleen Graham at (403) 492-4523

General

Alumni Association AGM
25 May 1998, 5:30 p.m.
Alumni House
All alumni are welcome

Green & Gold Generations
23 May 1998
An all-day celebration for all generations of U of A families

Reunion Weekend/ University Days '98
1-4 October
Includes class reunions, alumni events, Super Saturday, Tuck Shop Breakfast, Turkey Trot, football game, and campus open houses and tours.

CLASS REUNIONS '98

'73 Chem Eng/RW98/R. Holcek
'73 Civil Eng/RW98/R. Giebelhaus
'73 Dent/RW98 & 11 June, Jasper/K. Wallace
'73 Dent Hyg(Dip)/Summer/T. Owen
'73 Educ/RW98/M. Bahry
'73 Elec Eng/RW98/J. Beckett
'73 Geology/RW98/E. Hagedorn
'73 Mech Eng/RW98/A. Keller
'73 Med Lab Sci/RW98/M. Jobe
'73 Met Eng/RW98/J. Diakow
'73 Min Eng/RW98/K. Jonah
'73 Med/17 Sept & 2 Oct/M. Moreau
'73 Nu(Dip)/RW98/L. Rutherford
'73 Pharm/RW98/R. Lawton
'73 Phys Ed/RW98/D. Taylor
'73 PT/RW98/T. Kaasa
'73 Rec Admin/RW98/P. Fearon
'73 Rehab Med(Dip)/RW98/S. Tench
'73 Speech/RW98/J. Christie
'73 Student Council/RW98/G. West
'78 Ag/RW98/Helen Heacock
'78 Bus/RW98/S. McCulloch, A. Cadrin
'78 Chem Eng/RW98/G. Gulayets
'78 Civ Eng/RW98/G. Davidson
'78 Dent Hyg(Dip)/RW98/L. Brunsch
'78 Dent/RW98/R. Klippert
'78 Educ(Dip)/RW98/P. Avasthi
'78 Ed/RW98/A. Bihun
'78 Elec Eng/RW98/J. Walker
'78 Geology/RW98/W. Godwin
'78 Home Ec/RW98/T. Beaudoin, D. Brekke
'78 Law/RW98/C. Gardner, J. Riddle
'78 Mech Eng/RW98/G. Cartmell
'78 Nu/RW98/D. Bucharski, B. Leddy
'78 Pharm/RW98/S. Baxandall
'78 Phys Ed/RW98/B. Gavriloff
'78 PT/RW98/T. Schlese
'78 Speech/RW98/T. Belter
'78 Student Council/RW98/D. Somerville
'83 Chem Eng/RW98/B. Russell
'83 Elec Eng/RW98/G. Eggen
'83 Geology/RW98/D. Fluet
'83 Law/RW98/J. Topoliniski
'83 Pharm/RW98/C. Shewchuk
'83 Phys Ed/RW98/L. Wynn
'83 Student Council/RW98/W. Sawatzky
'88 Ag/RW98/D. Wilson
'88 Bus/RW98/R. Belter
'88 Chem Eng/RW98/E. Hart, D. Dufresne
'88 Civ Eng/RW98/P. Grootlelaar, G. Scott
'88 Cmpt Eng/RW98/R. Moll
'88 Dent Hyg(Dip)/RW98/A. Johnson
'88 Dent/6 Sept, Calgary & 11 June, Jasper/K. Chow, B. Alfarie
'88 Educ/RW98/M. Rizzoli
'88 Elec Eng/RW98/D. Warren
'88 Geology/RW98/D. Kozak
'88 Home Ec/RW98/L. Brunelle
'88 Law/RW98/R. Garside
'88 MBA/RW98/G. Fardue
'88 Mech Eng/RW98/T. Dixon
'88 Med Lab Sci/RW98/M. Gilchrist
'88 OT/RW98/C. Lea
'88 Pet Eng/RW98/J. Caouette
'88 Pharm/RW98/M. Johnson
'88 PT/RW98/D. Gallagher
'88 Speech/RW98/P. Poon
'88 Student Council/RW98/T. Boston

Continued on page 22. ▶

Choosing the Road Taken

Selwyn Jacob takes the long way to becoming a renowned documentary filmmaker

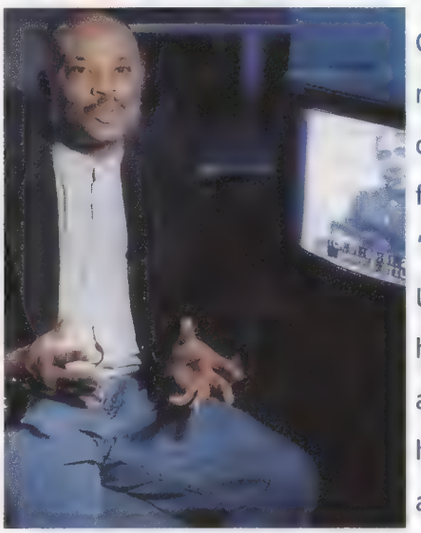
By Pamela Swanigan

Back in 1968, two paths diverged out of Trinidad for a 26-year-old teacher and aspiring film-maker. One path led to film school at the University of Southern California, where he could learn how to lay down on film the Caribbean stories that had fascinated him all his life. The other led to Edmonton, where he had a friend and where – well, where he could afford the tuition.

"I wanted to go to film school," recalls **Selwyn Jacob**, '70 BEd, sitting in his large, tidy office at the National Film Board of Canada in Vancouver, where he relocated in late 1997 with his wife, **Joan Jacob**, '75 BSc. "I remember writing to the University of Southern California and I got this nice letter saying they'd be glad to have me. And then I saw what the tuition was." Jacob's lips twitch dryly, and a faint rearrangement of his facial muscles suggests a smile. "One Trinidad dollar was worth something like 25 cents U.S. It would have taken me forever to go to the United States."

Jacob chose the icier and more circuitous path, but his attractive, impassive face shows no signs of regret. He has, still, as much about him of the school principal he once was as the accomplished filmmaker he now is. His Caribbean-accented voice is mild and even; his manner is confident but not self-aggrandizing. The walls of his office are empty of the awards he has collected, including the John Ware Memorial Lifetime Achievement Award, which he received at last year's Alberta Black Achievement Awards; and the Kathleen Shannon Award for independent film-making that gives voice to groups outside the dominant culture, which he received from the 1997 Yorkton Short Film and Video Festival. The fax notifying him that his documentary about black Canadian railway porters, *The Road Taken*, would receive the Canada Award at the Geminis this past February flutters on a bulletin board somewhere down the hall in the labyrinthine NFB complex.

True, going to the U of A did seem to point him away from his film-making goals. True, the climatic shock was something that not even fellow expats could prepare him for. (It didn't help that Jacob arrived during one of the coldest winters in Edmonton's history.) True, Jacob was somewhat perplexed by the arcane North American sports, like football and badminton, required for a physical education major – and he gave up on baseball when he discovered that baseball players, unlike cricketeers, didn't catch the ball with their bare hands.



Carol Raciot

Still, the U of A experience was "very very positive," with good friends and excellent professors, says Jacob, who ended up majoring in drama. Most importantly, Canada's tradition of racial, cultural and creative self-definition fostered Jacob's artistic vision, and helped to validate his dreams of making indigenous films.

He found out just how Canadian he had become in the mid-'70s, when, his BEd completed and the old dream gnawing, Jacob reapplied to the USC film school. He was disturbed at what he found when he arrived there: besides virulent racism and a relentless racialism that slotted everything into a black-and-white frame, he encountered a reflexive nationalism that seemed to blinker, if not blind, its adherents.

"America," Jacob says, "is a very strange place. While I was there I just had to say, 'Yes, I'm studying within the Hollywood system, but I'm going to go back home.'"

"Home" meant Trinidad – or so he had thought while studying toward his degree. But on graduation from USC, Jacob found himself once more at a juncture. He could go back to Trinidad and pursue a film career in a country where, as he puts it, "there really is no film-making industry," or he could go back to Edmonton, where a tradition of industrial and educational film-making proffered a slim chance of work. For a second time, he opted for Edmonton. And there, for a second time, financial considerations forced Jacob into education. Unable to find film work, he took a job teaching junior high school in Lac la Biche, 200 kilometres north of Edmonton.

Canada's tradition of racial, cultural and creative self-definition has fostered Jacob's work. "I could have gone to the United States ... would I have retained the vision and the independence I have been allowed as a Canadian?"

"It was very frustrating," he admits. "I said to myself, 'Maybe I'll get a film story.' That's how I looked on the bright side. And that's how I found out about a place called Amber Valley." The making of *We Remember Amber Valley*, Jacob's 1984 documentation of the creation and decline of Alberta's first black settlement (located near Athabasca, Alberta) was just the first example of his talent for incorporating travels down the less-preferred path into his work.

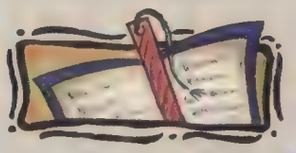
The Saint from North Battleford, Jacob's 1989 documentary about the NFL's first Canadian rookie-of-the-year, uses TV footage and interviews with family and coaches to extol Rueben Mayes' athletic ascendancy. Interviews with Mayes him-

self convey his faint but perpetual bewilderment at moving from Saskatchewan to a country where nobody believed that a black person could like fishing or eating perogies – an unmistakable echo of Jacob's own disenchantment with the United States. Similarly, *The Road Taken*, a jazz-linked collage of archival photos, old film stock, and interviews with surviving railway porters, reflects Jacob's sympathy for a group of men whose personal aspirations were sidetracked – often permanently – by limiting options, racial barriers, and newspaper ads offering hope of a steady wage beneath banners that blared, "Coloured men needed."

Now 55, Jacob hopes to turn his vision from short documentary films to feature-length projects: one about the Amber Valley baseball team, and one on legendary black Alberta cowboy John Ware. In his current job, producing documentary films under the NFB's mandate to encourage "film-makers of cultural diversity," he uses the insight he garnered in his days teaching in rural Alberta, where the interplay between Native, Finnish, Ukrainian and other communities allowed him, "to observe multiculturalism as an outsider."

The word "multiculturalism" brings Jacob back to the question of what he might have been if he had travelled down the road not taken. He mentions an encounter with a friend of his from Trinidad, who went to the States at the same time that Jacob went to Canada and who is now mired in jingoistic attitudes. "I think about that," says Jacob introspectively. "I could have gone to the United States also. I wonder: would I have retained the vision, the independence I have been allowed as a Canadian? I don't think so."

Though Jacob says he isn't sure he'll ever get back to the West Indies to make the films he originally intended, he does expect, someday, to direct and produce dramas. "I think I'll make some," he says, with the confidence of one who has proved himself unusually adept at keeping alive the dream deferred. "It doesn't look like it, but I think I will."



BOOKMARKS

Dying Scarlet

Tim Bowling, '97 MA

The title poem in this collection won the Petra Kenney Memorial Prize in 1997. Bowling was also the 1994 winner of Canada's National Poetry Contest. (Nightwood Editions)

The Possibilities of Thirst

Jannie Edwards, '89 MA

Edwards, an instructor of writing and literature at Grant MacEwan Community College in Edmonton, explores the many forms of desire in this passionate volume of poetry. (Rowan Books)

Body Basics:
Simple Steps to a Healthy, Pain-Free You

Karen Webb (Johnson), '77 BSc(PT)

This slim, user-friendly volume is full of effective tips and diagrams on maintaining healthy physical habits during everyday activities such as sitting, working, exercising, and even playing video games. (Birchcliff Publishing)

The Risk of Death in Canada:
What we know and how we know it

Steve Hrudey, '70 BSc(Eng) and Simon Thomas

Hrudey, who holds the Eco-Research chair in Environmental Risk Management at the U of A, collaborated on this meticulously researched summary of health risk information. It's a valuable guide for students and professionals in medicine, nursing, health sciences, health promotion and public policy. (U of A Press)

Testament of a Lover:
A Journey Through Grief

Clifford Ellis, '70 PhD

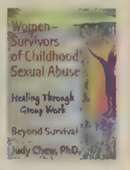
Nova Scotia author Clifford Ellis has written this beautiful love story about a man who leaves his wife a "love-will," in the form of a moving personal letter, to help her cope after his death. (Moulin Publishing)

The Joy of Not Working

Ernie Zelinski, '73 BSc(Eng), '86 MBA

The author credits himself with the designation "CL" – Connoisseur of Leisure – in this amusing book, which has chapter headings such as "Being an Aristocrat on Less Than Twenty Dollars a Day." Zelinski gives volumes of good advice on working less and enjoying life more in this bestselling book. (Visions International Publishing)

Women Survivors of Childhood Sexual Abuse:
Healing Through Group Work



Judy Chew, '92 PhD

This "how-to" book deals with the theoretical rationales, resources, and issues involved in conducting group therapy sessions for women survivors of childhood sexual abuse. The author is the training coordinator for the University of Calgary's Counselling Services. (Haworth Press)

Tes chansons, ta musique

Therese Potvin, '68 BEd

Created by a former Faculté Saint-Jean professor, this series of teaching resources for French music curriculum has been acclaimed by educators and critics and approved for use in Alberta's French-language and French immersion schools. (Les Éditions, Via Musica)

The Progress of an Object in Motion

Curtis Gillespie, '85 BA

In an acclaimed first collection of short stories, this Edmonton author portrays people in the middle of lives rife with emotional and moral ambiguity. U of A English professor and Governor General's award-winning author Greg Hollingshead called it, "fiction for a new millenium." (Coteau Books)

ALSO NOTED

Opera ... anyone?
A guide to the enjoyment and understanding of the fascinating world of opera

Morris Maduro, '69 MA, '78 PhD

(Regina Conservatory of Music and Dance)

CLASS REUNIONS '98

Continued from page 19.

'93 Ag/RW98/B. Breneman
'93 Business/RW98/N. Ingersoll, W. Boje
'93 Chem Eng/RW98/C. Carley
'93 Civil Eng/RW98/J. Alexandruk
'93 Cmptg Eng/RW98/R. Kondor
'93 Dent Hyg(Dip)/RW98/P. McIntyre
'93 Dentistry/RW98/I. Chuah
'93 Educ/RW98/S. Addley
'93 Elec Eng/RW98/D. Shiptiski
'93 Food Sci/RW98/S. Swan
'93 Geology/RW98/C. Horne
'93 Home Ec/RW98/K. Guay
'93 Law/RW98/J. Chow
'93 Med Lab Sci/RW98/L. McKercher
'93 Met Eng/RW98/S. Butt
'93 Nu/RW98/C. Panteluk
'93 OT/RW98/D. Beger
'93 Pet Eng/RW98/T. Brabazon
'93 PT/RW98/C. McLeod
'93 Phys Ed/RW98/C. Broomfield
'93 Rec Admin/RW98/J. May-MacDonald
'93 Speech/RW98/L. Kanerva
'93 Student Council/RW98/S. Andrew

UPCOMING REUNIONS

'39 Engineering/1999/H. Johnson, J. Fulton
'49 Pharmacy/1999/A. Forhan
'49 Business/1999/R. Staysko
'49 Civil Eng/1999/D. Usher
'50 Civil Eng/2000/G. Stefanick, C. Weir
'50 Honours Science/2000/H. Buckmaster
'60-'95 Mech Eng/2000/D. Dale
'64-'97 Psychology (Master's)/1999/ P. Kinkaide, J. Evans, G. MacDonald
'77 Mech Eng/2002/K. Litman
'89 Rec Admin/1999/M. Shenher
'75 Dentistry/RW 2000/F. Van Gyn

SALUTE TO VOLUNTEERS

Cecilia Lam, '76 BSc(OT), received the U of A Alumni Citation in recognition and appreciation for her outstanding vision, leadership and guidance in staging the First International Convocation in Hong Kong on 22 March.

A dedicated volunteer who had organized several U of A alumni events in Hong Kong, Lam was the first alumnus to ask President Rod Fraser whether a convocation ceremony could be held in Hong Kong to bring together the over 1,000 alumni living there (most of whom had not been able to attend their original convocation).

Lam, who also completed an MSc in health management in Hong Kong, is now the chief executive officer for ReHabAid. She received the Young Leaders Award in Hong Kong in 1987 and gives much of her time to donating books, toys and rehabilitation equipment such as wheelchairs to poorer areas and orphanages in mainland China.

HONG KONG CONVOCATION

On 22 March 1998 the University of Alberta held its first-ever convocation ceremony on international soil, in Hong Kong. Of the more than 1,000 U of A alumni who live in Hong Kong, 122 crossed the dais at the convocation.

▶ Two of the members of the executive of the U of A Alumni Association in Hong Kong, Trevor Mak (left) and Freddy Yau, enjoy the fruits of their labor.

◀ For many of the 122 alumni in attendance, the 22 March U of A convocation in Hong Kong was their first chance to share their U of A graduation with friends and family. ▼

◀ Fok Woo-Ping (left) and his wife, children and extended family filled a table of 12 at the Alumni Association-hosted dinner for graduates that followed the convocation ceremony.

▶ Dean of science Dick Peter socializes with several Faculty of Science graduates at the post-convocation dinner.

▲ William Yung, a member of the executive of the U of A Alumni Association in Hong Kong, was one of the MCs at the Alumni Association dinner.

◀ A proud winner shows off one of more than 65 "lucky draw" prizes (similar to door prizes) that were a highlight of the post-convocation dinner celebration.

CLASS NOTES

'45 Doris Anderson, BA, '73 LLD (Honorary), recently received an honorary degree from Simon Fraser U in Burnaby, B.C. She is a former editor of *Chatelaine* magazine, a former president of the National Action Committee on the Status of Women, and the author of several books including her recent autobiography, *Rebel Daughter*.

'48 John Lipinski, MD, '46 BSc, reports that his medicine class (Class "B" of '48) will meet at Reunion Weekend '98, as they have every five years since graduation. Also celebrating their 50th anniversary of graduation at RW'98 are the members of "Class A" of the same year (the class was split in two during war time). Helping John organize the reunion are **Allan Hepburn**, '47 BSc, '48 MD, and **Allastir Mackay**, '43 BSc, '48 MD.

'55 Jean Martin (Leadley), BEd, '67 MEd, has been awarded honorary life membership in the Alberta Retired Teachers' Association for her lifelong contributions to education and society. A teacher for 60 years, Jean served as a school trustee and superintendent and played an active role in the community of Ponoka, Alberta.

'56 Lois Etherington (Deane), BEd, is a professor emerita of business administration at Simon Fraser U in Burnaby, B.C. She recently received an honorary CMA designation from the Certified Management Accountants of British Columbia.

'56 Gordon Arnell, LLB, '56 BA, of Calgary was recently appointed a director of BFC Construction Corporation. He is the chairman and CEO of the real estate company Brookfield Properties Corporation.

'58 Allen Cromb, BCom, a financial planner with Investors Group in Edmonton, recently achieved his certified financial planner designation from the Financial Planners Standard Council of Canada.

Nick Krpan, BSc(Eng), was recently appointed vice-president, Alberta region for Sandwell Engineering Inc.

'61 Fred Telmer, BA, '64 MA, the chairman of Stelco inc. in Hamilton, Ontario was recently elected to the board of director of Spar Aerospace.

'62 Paul Cantor, BA, the former CEO of National Trustco Inc., is the new executive director of the Toronto International Leadership Centre for Financial Sector Supervision within York U's Schulich School of Business in Toronto.

Jim Edwards, BA, a former federal cabinet minister and vice-president of the Edmonton-based East West Insurance Ltd., has been named the new president of Economic Development Edmonton.

Donald Weideman, BCom, was appointed to the board of the Northern Alberta Institute of Technology this past January.

'66 Owen Anderson, BA, '72 PhD, of Vancouver has been appointed president of International Thermo Tech Technologies Inc. and vice-president of Thermo Tech Technologies Inc.

Alvin Bromling, BA, '70 MA, is now the vice-president, instruction of Grande Prairie Regional College. Previously, he was vice-president, academic affairs, of Fairview College in Fairview, Alberta.

'68 Melvin Delaney, BEd, reports that he is retired from a career in college administration that took him to Grande Prairie, Red Deer, and his current home of Lethbridge, Alberta. Mel, a former U of A Mixed Chorus member who has fond memories of the "eastern Alberta loop" the Chorus toured in spring 1961, now sings with the Southminster United Church Choir.

Denis Ellard, BSc(Eng), '75 MBA, was recently appointed vice-president of ATCO Ltd. and Canadian Utilities Ltd. in Edmonton. Most recently, he was president of ATCO Gas Services Ltd.

Chung Law, BSc, received the Heat Transfer Memorial Award of the American Society of Mechanical Engineers in October 1997. He is the Robert H. Goddard professor of mechanical and aerospace engineering at Princeton U in New Jersey.

'69 Gerd Brockelmann, BA, has spent the last 15 years working in the printing industry. He is the owner of Allegra Print and Imaging in Vancouver.

Raymond Coad, BA, a partner with the Calgary office of the law firm Milner Fenerty, was recently appointed Queen's Counsel in the Province of Alberta. Raymond completed the Royal Bank's executive training program after graduation and has been a Calgary lawyer since completing a law degree from the U of Saskatchewan in 1974.

Morris Maduro, MA, '78 PhD, is the author of *Opera ... anyone? A guide to the enjoyment and understanding of the fascinating world of opera*, available from the Regina Conservatory of Music and Dance.

Tim Melton, BCom, was recently appointed chair and CEO of Edmonton-based Melcor Development Ltd.

Kit Pearson, BA, a Vancouver author, won a prestigious 1997 Governor General's Award for Children's Literature for her book *Awake and Dreaming*.

'70 Katherine Govier, BA, the author of three short story collections and five novels (including the recent *Angel Walk*) was awarded the Engel Prize for literature in 1997. The award honors a female Canadian writer in mid-career.

'71 Allan Lefever, LLB, '67 BEd, was elected vice-president of the Heart and Stroke Foundation of Canada recently. Allan, a lawyer with the Edmonton firm Reynolds, Mirth, Richards, and Farmer, was also recently appointed Queen's Counsel for the province of Alberta.

'72 Joseph Cherwinski, PhD, won a 1997 President's Award for Distinguished Teaching from Memorial U in St. John's, Newfoundland, where he is history professor. The award is granted by the Memorial U Alumni Association.

'73 Gerald Kelly, PhD, was appointed president and vice-chancellor of the new Royal Roads University (located on the site of the former Royal Roads Military College) in Victoria in the autumn of 1997.

Eva Rolheiser, BEd, reports that she enjoys travel, crafts, and spending time with her children and their families. "We are very busy," she writes.

Ralph Young, MBA, was recently appointed president of Melcor Developments Ltd., where he has worked for the last 26 years.

'74 Ruth Ball (Berg) and **Ronald Ball**, '75 BSc(Ag), '79 MSc, have returned to Alberta after spending 16 years in Ontario, where Ruth was a school board trustee. Ron now holds the chair in swine nutrition at the U of A in the Department of Agricultural, Food and Nutritional Sciences. Ruth and her father, **Roy Berg**, '50 BSc, are currently compiling the Berg family's history, from their earliest days homesteading near Millicent, Alberta in the '20s. Friends and classmates can contact Ron and Ruth at *ball@gpu.srv.ualberta.ca*.

Jacqueline Coutu, LLB, '73 BA, was recently appointed a judge of the Court of Queen's Bench of Alberta in Grande Prairie.

Craig Green, MSc, has been appointed

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for a five-year term as the Newlin Chair in botany at the College of the Atlantic in Bar Harbor, Maine. A professor at the College since 1980, he is an authority in the area of rare and endangered plants of coastal Maine.

Bartha Knoppers, MA, a professor in the Faculty of Law at Université de Montréal, has been appointed to the Bayer Advisory Council on Bioethics. She also chairs the International Ethics Committee of the Human Genome Organization and is a member of the International Bioethics Committee of UNESCO.

Bruce Logan, LLB, '66 BSc(Eng), recently retired from the federal justice department and moved to Grande Prairie, Alberta. Bruce reports that he plans to spend some time on his ranch south of DeBolt, Alberta, and sailing on the west coast.

'75 Eric Breitkreutz, BA, has joined the Edmonton office of the consulting group of Coopers and Lybrand as a principal. Previously, he had been a vice-president with Telus Corporation.

Doreen Sulyma, LLB, '72 BA, was recently appointed a justice of the Court of Queen's Bench in Alberta.

'76 Ralph Berke, BCom, a financial planner with Investors Group in Edmonton, has received the designation certified financial planner from the Financial Planners Standards Council of Canada.

Jean-Marc Deroy, MSc, is managing director in charge of the division of administration at the United Nations Industrial Development Organization in Vienna. He would like to hear from U of A friends and colleagues via e-mail at *jderoy@unido.org*.

Wilton Littlechild, LLB, '75 MA, '67 BPE, was honored by his colleagues with a distinguished service award from the Alberta branch of the Canadian Bar Association recently. He is a former member of Parliament and currently serves as vice-president of the Indigenous Parliament of the Americas.

Robert Phillips, LLB, '71 BSc(Eng), the former president and CEO of Dreco Energy Services Ltd., was recently appointed president and CEO of PIT Group Inc.

'77 George Crookshank, MBA, was recently appointed vice-president (finance) and chief financial officer of Ocelot Energy Inc. in Calgary.

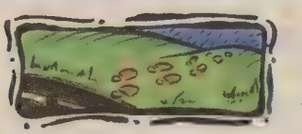
Gary Dawson, PhD, of Boise, Idaho, became one of the first 145 people in the U. S. ever to be certified as a geriatric clinical pharmacist through a national exam in November 1997.

Douglas Gorman, BA(CdnSt), recently joined the Edmonton law firm Lucas Bowker and White as head of its wills and estates department.

Gus Hope, BCom, was appointed president of the Edmonton Construction Association for 1998. He is manager, special projects, for Carmacks Construction and has served as a director of the Association for the last nine years.

Shelley Miller, LLB, became a partner in the Edmonton law firm Cruickshank Karvellas recently.

Eleanor Olszewski, BSc(Pharm), '81 LLB, a lawyer with the Edmonton firm



OFF THE BEATEN PATH

Brett Gladman, '88 BSc, didn't set out to find two new moons orbiting Uranus. He was hoping to find new comets on the far side of Neptune using one of the world's most powerful Earth-bound telescopes.

He and three colleagues booked the five-metre Hale telescope on Palomar Mountain, California for two days this past September, a time of year when the first hour of the night was useless for their purposes. But with the telescope's price tag of about $1,000 (Cdn) per hour, taking a coffee break seemed a bit frivolous.

Gladman's colleague Philip Nicholson of Cornell University suggested pointing the telescope at Uranus – a surprising suggestion, since the region around each planet had already been searched to the limit of what had been, until recent improvements, technologically possible.

"Moons are interesting because there are fewer of them and no one has found one in a while," says Gladman, a post-doctoral fellow at the Canadian Institute for Theoretical Astrophysics at the University of Toronto. "We didn't go feeling we were going to find these things." The Voyager space craft discovered 10 new moons when it flew past Uranus in 1986, but the last moon found by telescope from Earth was in 1948.

Gladman and his colleagues used recently developed, powerful detector technology to take three sets of images of space surrounding Uranus. Flipping through them later, they found two celestial bodies that seemed to be moving in the same direction as the planet. The objects were almost definitely moons but, true to their training as scientists, the cautious astronomers had to rule out other possibilities before announcing their find to the world. Gladman, whose specialty is studying and computing celestial orbits, says the key to proving the objects were moons, and not asteroids or other objects, was to be able to predict where they would be in the future. The team made some orbital projections, and when they returned to Palomar in October found the moons where they predicted them to be.

The International Astronomical Union, the governing body in the world of space, announced the discovery officially on 31 October 1997.

The two moons, which for now are called S/1997 U 1 and S/1997 U 2, are quite faint by astronomical standards and relatively small (160 kilometres and 80 kilometres in diameter). They are also much further from the planet than the other 15 moons of Uranus, leading Gladman to speculate that there might be more where these were found.

Gladman, an Alberta native who still considers Calgary his home, will get the honor of naming one of the moons. By convention, the moons of Uranus are named after fairies and heroines in the literary works of William Shakespeare and Alexander Pope, and Gladman says he is leaning toward Caliban, the name of a half-human, half-beast in Shakespeare's *The Tempest*.

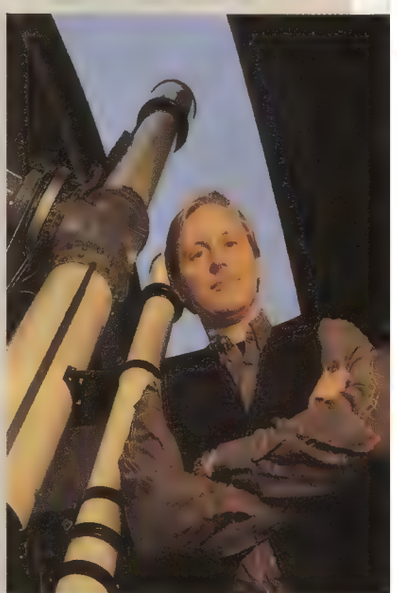
Rereading *The Tempest* after the discovery of the new moons was one of the rare opportunities Gladman has had lately to set aside research papers and do some nonscientific reading. Despite his heavy work load and dedication, the soft-spoken, casual astronomer laughs at the thought of himself as a stereotypical pocket-protector-type scientist. "I try to spend as much time doing other things as I can," he said, listing volleyball, tennis, sailing and hiking in the mountains as some of his favorite recreational activities.

He also plays piano and classical guitar and says he is likely to put on some folk music, or maybe even something baroque, when he's working. "Baroque music is a kind of analogy for science," said the 31-year-old. "Baroque music is extremely structured, but there's a lot of creativity on top of that."

U of A physics professor Douglas Hube remembers seeing that same kind of discipline and originality when Gladman was an undergraduate. Gladman's thesis project involved photographing the asteroid Vesta to compute its orbit. Since the U of A didn't have the equipment astronomers normally use for a project of that type, Gladman developed his own process and wrote his own software. "We knew that he would develop into an outstanding research scientist," said Hube.

Gladman himself didn't know he wanted to be an astronomer until the end of high school and credits Werner Israel, a renowned cosmologist and U of A professor emeritus, with persuading him to study at the U of A first to get a solid background in physics.

"U of A had a fabulous physics program which prepared me really well compared to other students at grad school," Gladman says. He did his graduate work at Queen's University in Ontario and at Cornell University in Ithaca, New York, and then was a post-doctoral fellow at the Observatoire de Nice in France.



Babak

This spring, Gladman will be searching the skies to locate the new moons and follow them carefully until the fall to confirm their orbits, so they can be officially entered into the astronomy books along with the names of their discoverers. Not a bad accomplishment for an hour when Gladman could have been sipping coffee. – ***Ijeoma Ross***

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IN MEMORIAM

The Alumni Association notes with sorrow the passing of the following graduates:

Eileen Louise Beattie (Evans) '25 BA, of Saskatoon, SK in Sept. '97

Ronald Martland '26 BA, '28 LLB, '64 LLD, of Ottawa, in Nov. '97

Mona Gerrie (Tredway) '28 BSc(HEc), of Westmount, PQ in Dec. '97

Frank Robert Miller '31 BSc(Eng), '65 LLD, of Charlottesville, Virginia in Oct. '97

Timothy Clarke Byrne '32 BA, '37 MA, '44 BEd, of Edmonton in Nov. 97

Ruth Beverley Peto (Robertson) '33 BSc(Nu), of Delta, BC in May '97

Enid Rosamond Brooks (Legate) '34 BA, '43 BEd, '64 Dip(Ed), of Edmonton in Nov. '97

Louis Rudolph '34 BSc(Pharm), '36 MSc, of Edmonton in Jan. '98

Albert F. Prebus '35 BSc, '37 MSc, of Columbus, Ohio in Dec. '97

Muriel Elizabeth Pinckney '36 BSc(HEc), of Castlegar, BC in July '97

Arthur McCall Thompson '37 BSc(Eng), of Brampton, ON in Nov. '97

Esther Margaret Byers (Malloch) '38 BSc(HEc), of Stony Plain, AB in July '97

Ronald Parsons '38 BSc(Eng), of Calgary in Sept. '97

Thomas Oswald Forhan '39 Dip(Pharm), of Eckville, AB in Feb. '98

Nathan Allen Shiff '39 MD, of Tucson, Arizona in Sept. '97

John Hislop Sturdy '39 MD, of Victoria, BC in Dec. '97

Jessie Emma Aumonier (Addison) '40 Dip(Nu), '41 BSc(Nu), of White Rock, BC in Aug. '97

William James Cadzow '41 MD, of Lac La Biche, AB in Oct. '97

Hanna Petrina Lewis (Christofferson) '42 BA, '46 BEd, of Calgary in Jan. '98

Rudolph James Warshawski '42 BSc, '45 DDS, of Richmond, BC in Dec. '97

George Anson Taylor '43 BA, '56 BEd, of Edmonton in Jan. '98

Clifford Clark Harrison '46 DDS, of Edmonton in Jan. '98

Alexander Andrekson '47 BSc, '49 MSc, '54 LLB, of Edmonton in Dec. '97

Elsie Marie McFarland '47 BEd, of Edmonton in Oct. '97

Albert Frank Belyea '48 BSc(Ag), of Edmonton in Jan. '98

George Frederick Brunet '48 BSc(Eng), of London, ON in Dec. '97

Edna Beatrice Parker (Norton) '48 BEd, '60 BA, of Leduc, AB in Nov. '97

George Edgar Allin '49 BSc, '51 MD, of Edmonton in Nov. '97

Roy Clyde Chubb '49 BA, of Edmonton in Sept. '97

Lloyd Mark Faibish '49 BSc(Eng), of North York, ON in Jan. '98

William Curtis Hart '49 BA, '71 BEd, '78 MEd, of Pincher Creek, AB in Oct. '97 ▶

Sports Wall of Fame 1998 Inductees

Gordon Bertie, '71 BSc, '72 Dip(Ed), '73 BEd, was a star wrestler at the U of A from 1969-75, winning three CIAU and five Canadian championships. He competed at two Olympic Games (1972 and 1976), two Pan American Games, a World Wrestling Championship, and in one Commonwealth Games. At the 1975 World Cup he won a gold medal for wrestling – a feat he repeated in 1993 at the World Masters Championship. He also won silver at the 1995 World Masters Championship.

Donna Enger (Huestis), '59 BPE, was a starter on championships Pandas volleyball and basketball teams while a student at the U of A in 1958-59. In her graduating year, Donna received the Bakewell trophy, an award honoring the University's outstanding female athlete. A U of A faculty member from 1961-65 in the Faculty of Physical Education and Recreation, Donna helped build a competitive gymnastics program on campus. She then went on to build physical education and athletic programs within the Edmonton Public School system.

Gino Fracas, '57 Dip(Ed), '58 BEd, '58 Dip(Ed), is legendary at the U of A as a builder of its athletic programs. A former member of two Grey Cup-winning Edmonton Eskimo football teams, Gino joined the Faculty of Physical Education and Recreation at the U of A in 1960. He helped establish intramural and wrestling programs and coached championship Golden Bears football teams between 1963 and 1966. After leaving the U of A in 1967, Gino began a 22-year coaching stint with the University of Windsor Lancers football team.

Dick Wintermute, '63 BPE, '66 BEd, spent 11 years as a student and coach at the U of A involved in both hockey and football. An all-star player in both sports, Dick was named the co-winner of the Wilson Challenge Trophy for the outstanding male athlete at the U of A in 1964. During his time on campus he was a member of three national championship teams (two in hockey and one in football) and 11 Canada West championship teams (seven in hockey, four in football).

Browlee Fryett, was appointed recently to the board of governors of NAIT.

Gary Stebner, BSc(Eng), was recently appointed executive vice-president of Consor Developers Inc. in Edmonton.

Allen Stowkowy, BSc(Eng), recently became senior vice-president (Alberta region) for Stuart Olson Construction in Calgary.

'78 Gary Bardell, MSc, '84 MBA, was recently appointed president and chief operating officer of Stuart Olson Construction in Calgary.

Pauline Tanguay (Johnson), BA, of Falher, Alberta reports that she is "still teaching and churning out kids going to the Faculté Saint-Jean and U of A!"

Brian Vaasjo, BEd, '81 MBA, was recently appointed vice-president (gas transmission) and president of IPL Energy's vector pipeline project.

'79 Alnashir Meghji, BSc, was recently named a partner in the Calgary law firm Bennett Jones Verchere.

Arthur Meyer, BSc(Eng), '85 MBA, was appointed vice-president (liquids marketing) and president of Wild Rose Pipe Line Inc. by IPL Energy Inc. recently.

Donald Philippon, PhD, is executive health advisor, health sciences development at the U of A.

'80 D. Bruce Bentley, BCom, was recently appointed president and CEO of Maclab Enterprises in Edmonton.

Ki-hyung Hong, PhD, has been the vice-president of Chung-Ang U in Seoul, Korea since August 1997.

'83 Doug Cox, '83 BSc(Eng), became the new president of the Edmonton Chamber of Commerce last January.

Thomas Demchuk, BSc, '87 MSc, completed a PhD in geology from the U of Calgary and is now a geological advisor and biostratigrapher with Conoco Inc. in Houston, Texas.

Betty Hicks, BEd, '87 MEd, an Edmonton realtor, was recently appointed to the board of directors of NAIT.

Lewis Kay, BSc, was recently named one of the "Top 40 Under 40" in Canada by *The Financial Post Magazine*. A professor and researcher in the area of nuclear magnetic resonance imaging spectroscopy at the U of Toronto, Lewis is currently studying the molecular basis of diseases such as AIDs and cancer.

Christian Nwobi-Okoye, MEd, has been running a book shop in his home town of Abagana in the Amanbra state of Nigeria since retiring in 1990 from his position as principal, special grade. He writes, "I am very proud of my connection with the U of A. My stay was short, hectic, and memorable."

Steven Parker, BA, '86 LLB, is a lawyer with the firm Robertson, Double and Lee in Hong Kong, where he has lived for the past four years. He and his wife recently welcomed their first child, a daughter. "Made in Hong Kong, born in China," they write.

'84 Adrian Dalwood, BA, '90 MLIS, is director of the Bedford Park Public Library near Chicago, Illinois. Previously, Adrian spent seven years working in Winnipeg. "All those people who can't figure out why someone needs a master's to be a librarian, I just look at them and think: at least I got a job with my degree!"

Lorrinda Loshny (Wiberg), BEd, '89 Dip(Ed), teaches in the Career and Academic Preparation and Transitional Vocational Departments at Olds College. She is married with two daughters.

David Macaulay, BCom, became a partner in the Calgary office of the law firm Bennet Jones Verchere recently.

'85 Kathryn Dykstra, LLB, a partner in the Edmonton law firm Cook Duke Cox, is the chair of the NAIT Board of Governors.

Shirley Kachur (Gadzella), BA, of Walnut Creek, California, is a writer currently working on a user-friendly automotive book that she hopes will be published in the autumn of 1998.

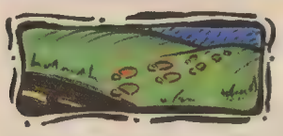
Wendy Rollins, LLB, '80 BA, joined the family law group of the Edmonton office of the law firm Barr Wensel Nesbitt Reeson recently.

'86 Brenda Pisko, BCom, recently became a partner in the Edmonton accounting firm Gardiner Karbani Audy and Partners.

Anthony Slemko, LLB, '83 BA, is now a partner in the Edmonton office of the law firm Parlee McLaws.

Mark Smith, LLB, '83 BCom, recently became a partner in the Calgary law firm Osler, Hoskin and Harcourt.

Mary Wan, BSc(HEc), moved back to Hong Kong recently after completing an MBA at the U of Technology in Sydney, Australia. She recently reported that she was expecting her first child in the spring of 1998.



OFF THE BEATEN PATH

Unlike many of her colleagues at Edmonton's ITV News, **Claire Martin (Morehen)**, '95 BSc, never planned to be on TV. A science and math whiz who decided on a career in meteorology while at university in her native England, Martin grew up in a television-free household.

Her parents still don't own a television, and they were less than delighted when their daughter quit working at Environment Canada to accept the job with ITV.

"They probably think it's a stage I'm going through," she says, laughing.

In their lack of enthusiasm, however, her mom and dad are in the minority. Every night, according to ITV ratings, thousands of people tune in just to watch Martin's forecasts, which are informative, comprehensible and – largely due to Martin herself – fun to watch.

Lotus Studio

"She's kind of like a pep pill," says ITV news director Tim Spelliscy, who hired Martin in August 1996. "She's a brightener – somebody with energy and enthusiasm about what she does and energy and enthusiasm about the weather."

That enthusiasm struck when Martin took a geography course that touched upon weather while she was earning a degree in math and physics at the University of Reading. "I liked the fact that it's always around you," she says. "And then you come to a country like this, where the sky is absolutely endless, and the possibilities for weather are also absolutely endless."

Martin emigrated to Canada after falling in love with Vancouver during a visit to Expo '86. She had no family here but that didn't discourage her. Nor did the year she spent working as a tour guide for a bus company before Environment Canada hired her in 1990. Nor did her first posting, to a cabin in Fort Reliance, on the eastern slope of Great Slave Lake in the Northwest Territories.

There Martin lived and worked with two other meteorologists, one of whom is now her husband. Every three weeks a plane would arrive to drop off their food and mail. They took turns working eight-hour round-the-clock shifts, taking weather observations that were used by Environment Canada to run forecast models, and by pilots who flew over the corridor en route to Europe. When she wasn't working, Martin snowshoed and watched the animals that lived nearby – wolves, caribou and ptarmigan, mostly.

"I completely fell in love with the place," she says. "It was very quiet, very clean. It's the feather in Canada's cap. I'd go back there in an instant."

After eight months in Fort Reliance, Martin spent two years as an Environment Canada meteorological technician in Alberta and the Northwest Territories. To advance in the organization she needed a degree from a Canadian institution, so in 1993, she enrolled at the U of A.

The courses were nearly identical to those she'd taken in England, but Martin still values the two years she spent on campus. She has high praise for her instructors, and says, "When you're a mature student, you appreciate the quality of what you're learning." In addition to staying in touch with some of her former teachers, she is involved with the campus WISEST (Women in Scholarship, Engineering, Science and Technology) program and has done some teaching herself, presenting a course on weather to junior high school students at the Edmonton Space and Science Centre every two weeks.

"Teaching is lots of fun – it keeps you in a learning environment," Martin says. The learning environment is what she misses most about Environment Canada, where she and her colleagues used to talk science, discussing articles in scientific journals when they weren't huddled over a computer, a windowsill, or a thermometer.

Because Martin's job at Environment Canada was to brief media reporters on weather patterns, her move to broadcasting was a smooth transition. Since arriving at ITV, Martin has incorporated into her forecasts detailed computer guidance models that allow her to keep current with weather patterns. She also implemented a program that allows the station to provide up-to-the-minute weather warnings. With her scientific background, Martin can anaylze, interpret, and tailor weather information to her broadcasts – a scenario that's becoming more common across North America, she says, as television stations are increasingly hiring meteorologists instead of simply using someone to read a weather report.

That doesn't mean she's always 100 per cent accurate, though. "It's a bit like being a stockbroker," she says. "You take it as an educated guess." When she's wrong, she says, viewers let her know. Sometimes they approach her in the grocery store and scold her. But, she says, "most people are fairly forgiving, especially in this province, where the weather can change so quickly." – ***Deborah Waldman***

'87 Kevin Lynch, LLB, is now a partner in the Edmonton office of the law firm Parlee McLaws.

Leslie Parker (Jevne), BEd, teaches music at the Hong Kong International School. She reports that she and her husband recently welcomed their first child, a daughter.

'88 R. Johnson Billingsley, LLB, '85 BA, recently became a partner in the Edmonton office of the law firm Parlee McLaws.

Joyce Nelson, BSc(Nu), is director of education for the Crossroads Regional Health Authority in Wetaskiwin, Alberta.

'89 David Airth, BA, now lives and works in Jakarta, Indonesia.

M. Edith Delanghe, BSc(HEc), is a mediator with Family and Social Services in Edmonton.

Gregory Groten, BSc, and **Jo-Ann Groten (Gabriele)**, BSc(Eng), live in Calgary, where Greg is a senior geophysicist with Suncor Energy. Jo-Ann is busy at home with their three children.

Catherine Hedlin, MPM, the former executive director of the Sexual Assault Centre of Edmonton, is now the head of the Alberta Association of Services for Children and Families.

IN MEMORIAM

Roy Samuel Trussler '49 BSc(Eng), of Victoria in Jan. '98

John Robert Brill '50 BEd, Saanichton, BC in Oct. '97.

Omar J. Broughton '50 BSc(Ag), of High River, AB in Dec. '97

Marcel Salomon Goldenberg '50 BSc(Eng), of Lisle, Illinois, in July '97

Leonard James Musto '50 BA '53 BDiv, of Edmonton, in Dec. '97

Elizabeth Steven MacKay '51 Dip(Nu), of Edmonton, in Nov. '97

Benjamin Clavering Oliver '51 BCom, of Edmonton, in Dec. '97

Paul Alexander Fetsko '52 BSc(Eng), of Calgary, in Nov. '97

Dorothy Rose-Marie Kelts '54 BSc(HEc), of Consort, AB in May '97

Helen Fabia Collinson (Glyde) '55 BA, of Edmonton in Jan. '98

Leonard Michael Corkery '55 BSc(Pharm), of Lacombe, AB, in Nov. '97

Mary Margaret Bekker '56 Dip(Nu), of Edmonton, in April '97

Florence Adele Swensen '56 BSc, of Edmonton, in Nov. '97

George Chopey '58 BEd, of Calgary in July '97

Betty Ewart Evans (Amess) '58 Dip(Ed), '61 BEd, '63 MEd, of Edmonton in Oct. '97

Neil Ott '58 Dip(Ed), '62 BEd, of Edmonton in Oct. '97

Wasyl Gregory Zielinski '58 Dip(Ed), '58 BEd, of Calgary, in Dec. '97

Ronald Peter Parish '59 BSc(Eng), of Stony Plain, AB in Jan. '98

Oliver Pearce Stonehocker '60 BEd, of Edmonton, in Dec. '97

Jenny Keegstra '61 BEd, of Lacombe, AB in Nov. '97

Douglas Gary Scraba '61 BSc, '63 BEd, '68 PhD, of Edmonton, in Nov. '97

Signe Gertrude Kallal '62 BEd, '66 Dip(Ed), '68 MEd, of St. Albert, AB in Jan. '98

Edward Alexander Rarog '62 BSc(Eng), of Ardrossan, AB in Jan. '98

Marlene Joyce Reil (MacKeage) '62 BSc, '64 BEd, of Hanna, AB in Jan. '98

George William Patterson '66 BEd, '69 MA, '72 PhD, of Barrhead, AB in Dec. '97

Clarence Arland Reil '67 BSc, of Hanna, AB in Jan. '98

Jaclyn Mae Dorsey '68 BA, of Victoria in Dec. '97

Stanley Rodney Lokseth '68 BSc, of Peace River, AB in Nov. '97

John Louis Violini '68 BSc(Eng), of Gloucester, ON in Jan. '98

Ronald Ernest Thomas '70 BSc, '74 DDS, of Halifax in Oct. '97

Patrick Thomas Halley '71 BEd, of Edmonton in Oct. '97

Robert Carl Fuchs '73 BSc(Eng), of Chestermere, AB in Dec. '97 ▶

IN MEMORIAM

Gordon William Brown '76 BSc(Forestry), of Grande Prairie, AB in Oct. '97
William Gordon Wheeler '77 BA(RecAdmin), of Edmonton in Jan. '98
Leslie Albert Corness '78 BEd, of Stony Plain, AB in Jan. '98
Walter Edward Pearson '78 BA, of Edmonton in Nov. '97
Doris Francis '81 BEd, of Edmonton, in Nov. '97
Jeffrey Allison Norton '82 BEd, of Fort Assiniboine, AB in Nov. '97
Justine Angelina Carswell (Hewko) '86 BA, of Calgary in Nov. '97
Wenda Lee Groeneveld (Mundell) '86 BSc(Pharm), of Mannville, AB in Nov. '97 ■

QUEEN'S COUNSEL

In December 1997 the following U of A graduates were appointed Queen's Counsel for the Province of Alberta:

CALGARY James Bancroft, '78 LLB • **Raymond Coad**, '69 BA • **John Iredale**, '70 LLB • **Richard Low**, '67 BA, '68 LLB • **Richard Powers**, '67 BA, '70 LLB • **John Soby**, '62 BA • **Dale Spackman**, '80 LLB • **Marcella Szel**, '74 BA, '75 LLB • **Allan Twa**, '70 LLB • **EDMONTON Lawrence Anderson**, '81 LLB • **Louise Ares**, '72 LLB • **Darren Becker**, '70 BA, '73 BCom • **Theodore Bosse**, '69 BA, '73 LLBA • **Michael Crozier**, BEd, '73 LLB • **Neil Gower**, '72 BA, '73 LLB • **James Kerby**, '71 BSc, '75 LLB • **John Knebel**, '73 BCom, '77 LLB • **Allan Lefever**, '67 BA, '71 LLB • **John Lindsay**, '81 LLB • **Richard Rand**, '73 BA, '74 LLB • **Gary Sciur**, '77 BA, '80 LLB • **Robert Seidel**, '80 BCom, '83 LLB • **Paul Sharek**, '69 BA, '70 LLB • **Lorne Smart**, '76 BSc(Ag), '82 LLB • **Eric Young**, '74 BA, '78 LLB • **GRANDE PRAIRIE Robert McVey**, BCom, '78 LLB **LACOMBE Alexander Rose**, '71 LLB **LEDUC John Jackie**, '76 LLB **LETHBRIDGE Rodney Jerke**, '79 LLB **PEACE RIVER Guy Mathieu**, '67 BEd, '72 LLB **RED DEER Christopher Warren**, '76 BA, '79 LLB

CORRECTIONS

In "Class Notes" of the Winter 1997/98 issue, *New Trail* incorrectly gave the names of '87 grads **Lynn Van Hyfte (Devenny)** and **Vincent Van Hyfte**. Also, it was incorrectly stated that '75 BMus grad **Pauline Le Bel** received an Emmy Award for her screenplay *The Song Spinner*. In fact, that work was nominated for an Emmy Award. *New Trail* apologizes for any inconvenience these errors might have caused.

Kenneth Light, BSc, has been living in Saudi Arabia for the last six years with his wife and four children. He works for the national oil company and reports that when they're not busy "dodging scuds," his family enjoy travelling.
Todd Olsen, BSc, and **Suzanne Bateman Olsen**, '91 BEd, have been living and working overseas for the last five years. Todd is a computer scientist with Schlumberger Geoquest and Suzy has been teaching in international schools. Currently located in Caracas, Venezuela, they have previously enjoyed living in Germany and Norway.

'90 Kevin Andersen, BSc, and **Michelle Andersen (Rochon)**, BSc, are back in Alberta after spending a year "down under" on a teacher exchange to Perth, Australia. "It was great, but it's even better to be home."
Heather Atkinson, BPE, of Lacombe, Alberta has been an accounting clerk at Agriculture Financial Services Corp. for the last two years. Heather recently reported that she planned to get married in June 1998 and move to Missouri, where her fiancé lives.
Hugh Babowal, BA, was the 1997 Gold Medalist at the Richard Ivey School of Business at the U of Western Ontario in 1997. He now works for Lehman Brothers Inc. in New York City.
Soon Chia, MA, reports that he visited Edmonton from Singapore in December 1996 – his first time back to the city since graduation. "Hope to visit Edmonton again soon with my family."
Robert Friedland, LLB, recently joined the Victoria law firm Dinning and Hunter as associate counsel. He is a former director of the Alberta Human Rights Commission and a former City of Victoria councillor.
Kelvin Greschner, BEd, of Air Ronge, Saskatchewan is now the regional superintendent of curriculum and instruction for Saskatchewan Education, responsible for northern Saskatchewan. He is currently pursuing a master's degree in educational technology.

'91 Craig McDougall, LLB, became a partner in the Calgary office of the law firm Felesky Flynn recently.
Shaun Richartz, BSc, is now a lawyer with the Edmonton firm Bishop and McKenzie.

'92 Paul Albu, BSc(Forestry), has been enjoying the challenges of working for the B.C. Ministry of Forests in the Timber Department in Alexis Creek, B.C. for the last three years. Paul is married with three children and reports, "My domestic life is far from sedentary."
Daniel Dallaire, BEd, recently became division manager of the Edmonton metro region office of Investors Group.
Barbara Reeves, MSc, has an MA in classics from the U of Victoria and is completing a PhD in classical archaeology at SUNY-Buffalo. For the last two years she directed an archaeological excavation in Jordan's Hisma desert.

'94 Donna Alden, BSc(Nu), has been working as a nurse practitioner for Health Canada and is now completing a program in environmental health.
Tanya Lightbody, BA, recently finished at the top of her BEd class at UBC. She now teaches kindergarten in Surrey, B.C
Lee Reynolds, BCom, an accountant with the Edmonton firm Gardiner Karbani Audy & Partners, recently became a chartered accountant. .

'95 Steven Hollinger, BCom, an accountant with the Edmonton office of Coopers & Lybrand, recently became a chartered accountant.
Lori Isberg, BEd, teaches in an outreach program at a new High River, Alberta school created in the 1997-98 school year. "It's exciting as I have been setting up the program, even naming the school!"
Guy Kerr, MBA, was recently appointed president and CEO of Payment Systems Corporation in Edmonton.
Michelle Plouffe, LLB, '92 BA, has joined the Edmonton office of the law firm Brownlee Fyett as an associate.

'96 Anees Chagpar, MD, '92 BSc, is a physician studying surgery in Saskatoon, Saskatchewan
Kimberly Palmer, BA, recently moved to Portland, Oregon to study at Western States Chiropractic College. She ran her second marathon this past autumn.
David Yee, BCom, an accountant with the Edmonton office of Coopers & Lybrand, recently became a chartered accountant.

'97 Jack Galbraith, BEd, recently reported that he was moving from Nova Scotia to Japan, where he planned to teach English.
Dylan Scammell, BA, has received the Faculty of Law Belzberg Entrance Scholarship for academics and community service. He is currently studying law at the U of A, and recently reported that he hoped to gain admission to the MBA/LLB joint program.

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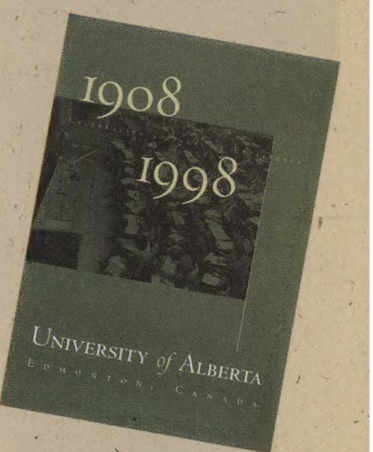

The Development Office would like to note the following corrections to the University of Alberta calendar sent to alumni this past December:

March and May: "Dr. John Collip" should read "Dr. James Bertrum Collip."

Back cover: "Provincial Museum of Alberta" photography credit should read "Provincial Archives of Alberta."

She shoots, she scores

Olympic athlete Kristin Berg combines world-class sport with a university education

By Charlene Rooke

Lotus Studio

ABOUT KRISTIN BERG

Favorite junk food:
french fries

Thinks heaven on earth is:
Canmore, Alberta

Signature item:
a carved hummingbird pendant that she wears around her neck

Would like to pursue:
coaching, telemark skiing (free-heel skiing), ski-joring (a sled dog pulling a cross-country skier)

Approximate amount of money she spent in Nagano during the Olympics:
"About 10 bucks! And I came back with bags full of stuff, gifts from the Japanese people."

Imagine racing across the snowy terrain, arms and legs slicing the frigid air, heart pounding like it might burst from beneath your rib cage. Then suddenly stopping. Standing absolutely still. Trying to control your breath and the movement of your heaving chest while levelling a rifle, taking careful aim, and firing.

Is it a scene straight out of a James Bond movie? A survival test in the frigid arctic? In fact, it's the sport of biathlon, which combines intense intervals of cross-country skiing with precise marksmanship. For the last 10 years, it's been the passion of U of A forestry student and two-time Olympic athlete **Kristin Berg**.

Berg was an accomplished cross-country skier when, as a volunteer at the 1988 Calgary Olympics, she saw her first biathlon competition. "I thought it looked simple," Berg laughs now. But then she tried it. "I went to shoot and I didn't hit anything, and I realized it wasn't as easy as I thought."

Berg was one of four members of the 1998 Canadian Olympic women's biathlon team. Only days after returning from Nagano, Japan, she sits in a boisterous campus-area restaurant recalling her experience at the games. Although the Canadian women's relay team finished last in its field, "The crowds were great, and very polite," Berg says. "They wouldn't cheer, only clap. And they clapped just as much for last place as for first place."

The seasoned Olympic competitor also represented Canada in 1994. "The difference between [Lillehammer] and Japan was that everyone in Norway knows what biathlon is," says Berg, whose family is of Norwegian descent. Another difference was that the biathletes' rifles were considered contraband in Japan, and were kept under constant lockup. They were only released to the athletes after they'd provided a super-secure "password" – a scan of the retina of the eye.

Nearby lunchtime diners would probably never peg the petite, energetic student munching on chicken caesar salad as a world-class athlete. But up close, Berg's compact, powerful build and the bright intensity of her blue eyes betray her physical and mental toughness. "Being goal-oriented," she says, "is something you learn in sport that works in school, too."

The U of A student hasn't been on campus much lately. Since this past November she had been competing on the international biathlon circuit in Europe. Shortly after the Olympics, she headed back to the Canadian biathlon team's home base (in Canmore, Alberta) to train for the Canadian nationals. During the summer, the team trains up to five or six hours a day using rollerskiing equipment to develop endurance for races of up to 20 kilometres.

> "I wouldn't do the sport for any other reason than loving it. It's like having a full-time job and not getting paid!"

Planting the seed

To stay in shape and support her training – which requires costly precision rifles, ammunition, and ski equipment – for several summers Berg did gruelling work on tree-planting crews in B.C., and in the process discovered another vocation. "I realized I liked being in the forest, and being around trees," says the fourth-year student, who will be working for a forestry company in Mackenzie, B.C. this summer. "I wouldn't be in forestry if it hadn't been for biathlon."

And she might not have remained at the U of A if not for the support she found there. Berg credits the former associate dean (academic programs) in Agriculture, Forestry and Home Economics, David Chanasyk, for encouraging her ambition to combine international-level athletic training with full-time studies. "The profs were just amazing," Berg raves, "and the people in my program are really helpful, especially when it comes to sharing notes." She's currently finishing up her last few courses by correspondence, and hopes to graduate with the class of '98.

The next generation

Biathlon has experienced a surge in popularity since the gold-medal success of Berg's teammate, Miriam Bedard, at the 1994 Olympics. Berg is thrilled to see more young people taking up the sport and hopes others will follow her example. "People used to think you could only do one, concentrate on school or sport, and maybe now they'll start to think differently. I'm glad if I can play a part in helping other people see that."

Berg's own desire to pursue her education actually drove her to quit biathlon after the 1994 games in Lillehammer. "That had been my goal, to go to the Olympics, and once I'd done that I thought it was time to move on with my life," says Berg. She enrolled at the U of A, but found that with a sudden halt to her intense training regimen her body "was just a wreck." So she began biathlon again, at first just for fun, then competing locally, then working back up to the national team level.

"I wouldn't do the sport for any other reason than loving it," she says. " It's like having a full-time job and not getting paid."

With lunch finished, Berg bundles up against the chill and slings on her heavy backpack to walk across campus. As she leaves, Berg blends in with the other students milling around. But don't forget she's a world-class athlete. When offered a ride, the Olympian grins. "That's okay," she says. "I can walk."

smile

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October 1:
University of Alberta Annual General Meeting

Alumni Wall of Recognition Induction Ceremony & Reception

October 2:
Chancellor's Reception for 1928, 1938, 1943, 1948, 1953, 1958, and 1963 graduates

Flashback Frenzy for 1968, 1973, 1978, 1983, 1988 and 1993 graduates

October 3:
Tuck Shop Breakfast, Super Saturday Lectures, Faculty Open Houses, Turkey Trot, Bears Football Game, Gala Dinner & Dance

October 4:
President's Brunch for 1928, 1938 and 1948 graduates

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